20010123.qrp v02_n076.qrl.20010123

Date: Tue, 23 Jan 2001 19:03:07 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2076

QRP-L Digest 2076

Topics covered in this issue include:

    by NM5Mike@aol.com
20) [89331] Help--ARS Sojourner SST and NC-40a notes?
    by "Wilford D. Lindsey" <70511.3041@compuserve.com>
21) [89332] Cub FOX AF4PS on 7.137 at 0245Z
    by "Wilford D. Lindsey" <70511.3041@compuserve.com>
22) [89333] Re: Help--ARS Sojourner SST and NC-40a notes?
    by BenNW7DX@aol.com
23) [89334] PIC dev environment
    by "Rod Cerkoney" <n0rc@hotmail.com>
24) [89335] Fox: No joy in Nebraska!
    by "TC Dufresne" <tdufres@radiks.net>
25) [89336] Fox- The mystical indoor antenna makes it into WA!
    by BenNW7DX@aol.com
26) [89337] Re: Loss
    by Bob Liesenfeld <wb0poq@visi.com>
27) [89338] Re: about tuner losses -- "can't be true"
    by Larry East <w1hue@amsat.org>
28) [89339] "Subscribing" to the ARCI QRP Quarterly
    by Larry East <w1hue@amsat.org>
29) [89340] Re: Feed Line question - This may be asking the obvious
    by "Don Wilhelm" <w3fpr@arrl.net>
30) [89341] RE: Dumb aerial question - G5RV
    by "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
31) [89342] Re: A-1 Op!!!
    by "Bob Tellefsen" <n6wg@earthlink.net>
32) [89343] FS - Audio Filter & Voice Keyer
    by Larry East <w1hue@amsat.org>
33) [89344] Re: Feed Line question - This may be asking the obvious
    by Shelly Somerville <somerville@uniserve.com>
34) [89345] Re: Feed Line question - This may be asking the obvious
    by "ZOOM" <kandrparker@sympatico.ca>
35) [89346] Re: Announcement: Ft. Tuthill JunkBox WARS!
    by "Doug Hendricks" <ki6ds@dospalos.org>
36) [89347] Re: What tuner manual says
    by "Adrian Weiss" <aweiss@usd.edu>
37) [89348] Re: Cub FOX AF4PS on 7.137 at 0245Z
    by Bryn Joynes <bryn@pcpractice.com>
38) [89349] QRP Quarterly (QQ) Comments
    by George Gingell <k3tks@u1.abs.net>
39) [89350] FOX - Cub Draft Log AF4PS 1-23-01
    by Macstein@aol.com
40) [89351] Silver Plating Antenna Wire
    by George Gingell <k3tks@u1.abs.net>
41) [89352] 30 meters
    by "Trevor Jacobs" <fxtech@earthlink.net>
42) [89353] N4BP MI QRP Contest
    by Bob Patten <n4bp@bc.seflin.org>
43) [89354] Re: PIC dev environment

by "Leon Heller" <leon_heller@hotmail.com>
44) [89355] Re: Barnes/ARRL Handbook
by "John A. Evans - N0HJ" <jaevans@codenet.net>
45) [89356] Re: What tuner manual says
by David Newkirk <dpnewkirk@home.com>
46) [89357] Re: about tuner losses
by Bruce Muscolino <w6toy@erols.com>
47) [89358] Re: "Subscribing" to the ARCI QRP Quarterly
by Bruce Muscolino <w6toy@erols.com>
48) [89359] Re: 30 meters
by "Pastor-KC1DI" <elbc@pivot.net>
49) [89360] Re: Feed Line question - This may be asking the obvious
by K4IA@aol.com
50) [89361] Re: 30 meters
by Steve Yates - AA5TB <aa5tb@arrl.net>
51) [89362] Re: about tuner losses
by Bill Coleman <aa4lr@arrl.net>
52) [89363] ARRL Handbook 2001
by Ken Brown <n4so@juno.com>
53) [89364] Vectronics Tuners
by Ken Brown <n4so@juno.com>
54) [89365] No Loss Feed Line, End Fed Ant System
by John R Kirby <n3aaz-qrp@juno.com>
55) [89366] Re: 30 meters
by "Mike Yetsko" <myetsko@insydesw.com>
56) [89367] Re: 10 m contest
by Bill Coleman <aa4lr@arrl.net>
57) [89368] Re: K-2 Building
by "Mike Yetsko" <myetsko@insydesw.com>
58) [89369] Re: about tuner losses -- "can't be true"
by Bill Coleman <aa4lr@arrl.net>
59) [89370] Re: PIC dev environment
by "Larry Gaalaas" <lgaalaas@qwest.net>
60) [89371] Re: 30 meters
by "Larry Gaalaas" <lgaalaas@qwest.net>
61) [89372] Re: 30 meters Foxhunt ok?
by "Larry Spinner" <n2icz@hotmail.com>
62) [89373] More tube radios &c
by Nils R Young <nilsbull@juno.com>
63) [89374] Help with Drake T4XB
by David Shalita <davidr@cnmnetwork.com>
64) [89375] Re: 30 meters Foxhunt ok?
by "John L. Sielke" <w2agn@pobox.com>
65) [89376] Re: Feed Line question - This may be asking the obvious
by "Don Wilhelm" <w3fpr@arrl.net>
66) [89377] RE: Corrosion/stranded wire
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
67) [89378] Re: 30 meters

by Brian Short <k7on@earthlink.net>
92) [89403] RE: 30 Metres
by "John L. Sielke" <w2agn@pobox.com>
93) [89404] Re: 30 Metres
by "James Parsons" <res075cz@gte.net>
94) [89405] Re: about tuner losses
by Bruce Muscolino <w6toy@erols.com>
95) [89406] Re: 30 Meters
by Harris Keith E CONT CNIN <harris_k@crane.navy.mil>
96) [89407] Re: 30 Metres
by Bruce Muscolino <w6toy@erols.com>
97) [89408] Re: 30 Metres
by "Richard Brummer, K2JQ" <k2jq@bestweb.net>
98) [89409] Dec CQ Magazine anyone?
by "John Harper" <ae5x@qsl.net>
99) [89410] Re: 30 Metres
by Bob Nielsen <nielsen@oz.net>
100) [89411] G3CWI - excellent web site
by "John Harper" <ae5x@qsl.net>
101) [89412] Re: 30 Metres
by Richard Matthews <prm@hiwaay.net>
102) [89413] From CNN, Radio is officially 100 years old!
by "Rod Cerkoney" <n0rc@hotmail.com>
103) [89414] Re: 30 Metres
by "Jim Crooke" <crooke@prodigy.net>
104) [89415] Re: 30 Metres
by "John L. Sielke" <w2agn@pobox.com>
105) [89416] Dummy load for the 901 DM
by RangerSF5@aol.com
106) [89417] resistor question
by RangerSF5@aol.com
107) [89418] ARRL HB one more time
by "Joe Trombino" <w2kj@earthlink.net>
108) [89419] Re: 30 Metres
by Shephed@aol.com
109) [89420] Re: "Subscribing" to the ARCI QRP Quarterly
by Jeff <fantbb@yahoo.com>
110) [89421] Re: about tuner losses
by "John Moriarity" <k6qq@hdo.net>
111) [89422] Winding Toroids
by Shelly Somerville <somerville@uniserve.com>
112) [89423] Re: resistor question
by "Don Wilhelm" <w3fpr@arrl.net>
113) [89424] Re: 30 Metres
by "John Moriarity" <k6qq@hdo.net>
114) [89425] RE: about tuner losses
by "Charles Mabbott" <crmabbott@mediaone.net>
115) [89426] NC40A repackaging

     by agtaylor@llnl.gov
116) [89427] Need help with torodial core
     by "Steve Jacobs" <sjacobs@isd.net>
117) [89428] Re: resistor question
     by "blinn" <blinn@smgazette.com>
118) [89429] Re: resistor question
     by "ZOOM" <kandrparker@sympatico.ca>
119) [89430] RE: about tuner losses
     by Bill Coleman <aa4lr@arrl.net>
120) [89431] Repackaging the NC40A
     by "Doug Hendricks" <ki6ds@dph.dpol.net>
121) [89432] Re: resistor question
     by "Mike Yetsko" <myetsko@insydesw.com>
122) [89433] Re: Repackaging the NC40A
     by KB7WW Art Moe <kb7ww@chatusa.com>
123) [89434] Re: Fox: No joy in Nebraska!
     by KaeseWoche@aol.com
124) [89435] Re: resistor question
     by "ZOOM" <kandrparker@sympatico.ca>
125) [89436] BRAVO on the new QQ
     by "Mike Branca" <w3irz@att.net>
126) [89437] Re: End-Fed Halfwave Antennas, Zepps, J-Poles -> HAMCALC
     by "Gary Oneil" <n3go@us.ibm.com>
127) [89438] Re: Need help with torodial core
     by "Don Wilhelm" <w3fpr@arrl.net>
128) [89439] Re: 30 Metres
     by hamjoel@juno.com
129) [89440] Re: about tuner losses
     by hamjoel@juno.com
130) [89441] Insulated wire and received noise.
     by W2SH@aol.com
131) [89442] RE: Repackaging the NC40A
     by "Niel Skousen" <nskousen@scientech.com>
132) [89443] harbor freight punch
     by "Mike WA8BXN" <hubby2k@hotmail.com>
133) [89444] QRP related survey question on ARRL Web page
     by "Hare,Ed, W1RFI" <w1rfi@arrl.org>
134) [89445] Re: about tuner losses
     by "George, W5YR" <w5yr@att.net>
135) [89446] The Tennis Shoe Counterpoise (LONG)
     by k1oj <k1oj@ditdit.com>

Date: Tue, 23 Jan 2001 00:31:22 -0000
From: "Mike Swift" <m0cqg@dial.pipex.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89312] Ten-Tec Century 21 advice - Final Note

Message-ID: <009801c084d5$0441de60$056a45c2@uksolsf56>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Again, thanks to all who have replied re my Century 21 questions.

Having spoken to Ten-Tec, they have confirmed that both the 'raspy'
side-tone and the click when sending CW (with the side-tone set low) are
normal 'features' of the Century 21. As a result, I won't be modifying the
rig or sending it for repair. I guess an outboard filter is in order, as I
don't want to screw with such an original radio.

Anyone have any recommendations for a good, outboard, variable bandwidth
audio filter??

Thanks & 73

Mike
M0CQG

Date: Mon, 22 Jan 2001 19:43:33 -0500
From: "ZOOM" <kandrparker@sympatico.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89313] Re: about tuner losses
Message-ID: <007901c084d5$83d44140$39cdfea9@einstein>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

With all do respect to everyone on the news group I think this is what ham
radio is all about. Asking questions and getting various opinions. Taking
this information and try to sort out fact from fiction which in some cases
will result in someone doing an experiment on their own. Which is exactly
what I'm going to do. This is not to critique anyone else's work or opinion
but to convince myself of what is truth and fiction! Besides I enjoy the
experimentation. For those who are content just to operate that's fine if
that's is your cup of tea but who hasn't felt pride and accomplishment
putting up their own antenna and having great success with it. This is what
it's all about.
Yes you can read an IEEE article and have your head spin trying to figure
out what they're talking about even if your an engineer! Besides don't

assume just because it's in QST or IEEE that it's the godspell! There is allot of fiction out there beleive it or not! Remember COLD FUSION? They are published!

Anyway, when in doubt try it out! That's exactly the approach I'll be taking and I will let those who are interested in on my findings.

Cheers,
Robert
VE3RPF

Date: Mon, 22 Jan 2001 19:58:01 -0500
From: Michael Bower <bowerm@ix.netcom.com>
To: qrp-l <qrp-l@lehigh.edu>, "NoVaQRP@topica.com" <NoVaQRP@topica.com>
Subject: [89314] NoVaQRP January Meeting Notes on our webpage
Message-ID: <3A6CD719.ADC8F3@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

The January get-together (we hesitate to call it a meeting) was held on Saturday, January 13th. Notes and photos from the get-together are now on our web page. Come visit and follow the links.

www.novaqrp.org

--
73 de N4NMR
Michael Bower
Ashburn, VA (near Washington, D.C.)

Date: Mon, 22 Jan 2001 20:16:55 EST
From: K4IA@aol.com
To: K4YBB@aol.com
Cc: qrp-l@lehigh.edu
Subject: [89315] Dumb aerial question - G5RV
Message-ID: <58.62f3bf4.279e3587@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I had a full size (101 foot) G5RV in a drooping dipole (not quite inverted vee) configuration and the auto tuner in my Icom 746 handled it fine on all bands. However, it was an inferior antenna. It was a good 2 S units below my Gap Titan vertical.

I tore it down and replaced it with a ladder line fed 82 foot long shorty (has some loading coils so it will work 160) dipole. The ladder line antenna is far superior to either the Gap or the G5RV. It works all bands 160-10 but it does require a tuner. I use it with my K1 and regularly make 1000 mile per watt QSOs on 20 and 40.

I think Varney's original G5RV was fed completely with ladder line and with a tuner. The modern versions using coax are just not the same.

Radio K4IA /QRPK1
Craig Buck
Fredericksburg, Virginia USA
QRP ARCI #2550 FISTS #6702 CC 788

For cheap long distance, 800#s and more
Tune to <A HREF="http://www.ld.net/?bucksavers">http://www.ld.net/?bucksavers
</A>
4.9 cents/min - no monthly fees

Date: Mon, 22 Jan 2001 20:22:13 EST
From: BenNW7DX@aol.com
To: qrp-l@lehigh.edu
Subject: [89316] A-1 Op!!!
Message-ID: <b7.ac7b990.279e36c5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hello -
I was pleasanty surprised to find an A-1 Operator Club certificate/award in my mailbox today!
Just wanted to share this exciting news!

73,
Ben - NW7DX
Redmond, WA

Date: Mon, 22 Jan 2001 20:25:35 EST
From: MVSOPEN@aol.com
To: QRP-L@lehigh.edu
Subject: [89317] Which TICK kit to start with?
Message-ID: <5e.62f1276.279e378f@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

While continuing to narrow my search for my first QRP rig, I've decided to follow the advice of so many of you here, and build a Embedded Research TICK keyer to start off with. My question: What model? I want the memory functions, so I think it's down to a TICK-3 or a TICK-4, (Or a '4-EMB) but I wondered what anyone here felt. I'll be building the kit in an external case, using the DIP model.

Rich de KY6O
KY6O@ARRL.NET

p.s. Does anyone know what's up with the DIGEST option of this list? When I set digest mode, I don't get any digests mailed out to me. I've tried writing to the list admins, but haven't heard anything in the past two weeks.

Date: Mon, 22 Jan 2001 20:41:05 -0500
From: "Mark Fancher" <mmfancher@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89318] Free Op Amp Kit
Message-ID: <002e01c084dd$a0684240$5b2e56d1@GEARemote>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="Windows-1252"
Content-Transfer-Encoding: 7bit

All:

A while ago, I sent away for the Philips RF Wideband Transistor sample kit, product code 9397-750-06846, from Future Electronics, www.FutureElectronics.com/rf. It included a bunch of surface mount transistors, along with a CD of app notes and datasheets.

I must be on some mailing list, because today I received another free sample kit from Standard Linear ICs. It has a whole bunch of surface mount op amps with a book of reference materials. The catalog mentions the offering as the Rail to Rail Op-Amps Family Kit, order code: RTRKIT/STDL. I assume Future Electronics sent it to me, but maybe not. Try www.st.com if Future

doesn't have it.

It would be great if someone would give the group some ideas of what to do with these surface mount thingies.

Mark Fancher, WO9G
mmfancher@earthlink.net

Date: Mon, 22 Jan 2001 17:42:52 -0800 (PST)
From: wa4dou@excite.com
To: BenNW7DX@aol.com, Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89319] Re: A-1 Op!!!
Message-ID: <5276269.980214172752.JavaMail.imail@seamore.excite.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Congrats Ben,
  Thats one that still really means something. You can be proud of that. 73
Roy WA4DOU

On Mon, 22 Jan 2001 20:22:13 EST, BenNW7DX@aol.com wrote:

> Hello -
> I was pleasanty surprised to find an A-1 Operator Club certificate/award in
> my mailbox today!

Date: Mon, 22 Jan 2001 17:41:01 -0800
From: "QRPacific" <cqdx@teleport.com>
To: <BenNW7DX@aol.com>
Cc: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [89320] Re: A-1 Op!!!

Message-ID: <003401c084dd$8bc8b7c0$c6231ad8@N7SG>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Can't think of a more deserving talented op! Keep up the good work, Ben.

John K7FD

Subject: A-1 Op!!!

> Hello -
> I was pleasanty surprised to find an A-1 Operator Club certificate/award
in
> my mailbox today!
> Just wanted to share this exciting news!
>
> 73,
> Ben - NW7DX
> Redmond, WA
>

Date: Mon, 22 Jan 2001 19:50:39 -0600
From: w0av@juno.com
To: qrp-l@lehigh.edu
Subject: [89321] Need RF Module for ICOM 2M rig
Message-ID: <20010122.195039.-425921.3.w0av@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello QRP Persons,

My faithful (until today) ICOM IC28A 25W 2M mobile abruptly turned into a
 milliwatt QRPp unit today when the output "gumstick" SC1019 RF Module
was assimilated by forces unknown. Apparently resistance was futile.

If anyone has a junker ICOM with a good SC1019 or SC1022 module, I'm in
the market.

RF Parts has a sub but it is priced around $80, more than the rig is
worth.

Help! TIA.

72/73/74 de George/W0AV
SOC#101

PS I know, I shouldn't be on 2M FM anyway

Date: Mon, 22 Jan 2001 20:55:53 -0500
From: David Newkirk <dpnewkirk@home.com>
To: qrp-l@Lehigh.EDU
Subject: [89322] Re: about tuner losses -- "can't be true"
Message-ID: <3A6CE4A9.74620936@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

John, VE7CFG, wrote:

"I miss the significance of: 'I wonder how the newsgroupies
explained the fact that Witt could match a dead short on the Heath tuner

to a 1:1 SWR?"'

The only way a short circuit (a 0-ohm load) can be made to look like a
50-ohm load (which would result in an SWR of 1 in a 50-ohm system) is to
connect a 50-ohm resistance in series with it. By subtraction, this
means that the tuner alone must be acting like a 50-ohm resistor --
something that *should not happen* with a matching network that's
properly designed and well-implemented.

73,

Dave, W9VES
dpnewkirk@home.com

Date: Mon, 22 Jan 2001 20:57:38 EST
From: K4YBB@aol.com
To: qrp-l@lehigh.edu
Cc: K4YBB@aol.com
Subject: [89323] Dumb Aerial Question Answered - THANK YOU!!!
Message-ID: <d8.14f38e7.279e3f12@aol.com>
MIME-Version: 1.0

Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

QRP-L inc.

Thank you to all who replyed to my dumb question. I believe I have the answer / information I need, Now I just have to decide on a tuner. I would ask for suggestions but I think I have taken up enough time and space for this week. Thanks again to those who responed I appreciiate the help.

72 / 73
Jim K4YBB

lets see now , must cover 6 meters, must have roller inductor, cross needle meter, must mean MFJ-969. FPQRP #55 , 10-10 #17553, ARRL Life

---

Date: Mon, 22 Jan 2001 21:06:28 -0500
From: David Newkirk <dpnewkirk@home.com>
To: qrp-l@Lehigh.EDU
Subject: [89324] RE: about tuner losses -- "can't be true"
Message-ID: <3A6CE724.3CF60E83@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Karl, K5DI, wrote:

" I have a Ten Tec Argonaut that runs through the MFJ 941 tuner to a butternut vertical with a good tuned radial ground. I FOX Hunt and am successful most of the time. Many have said I'm loud. Can't be loosing much in the tuner."

Sure you can. You could be losing "only half an S unit" -- "only 3 dB", or *50% of your power* -- in your tuner and still enjoy plenty of success in QRP work, because 2.5 W is more than enough to work the world, and can easily be "loud" under the right conditions.

To everyone who believes that losing 10 or 20% of their transmitter power in their tuner would make for some pretty obvious operating failure, I suggest a simple test: Build a 1-dB attenuator and put it between your transmitter (or transceiver; your receiver won't be much deafer) and feedline, and proceed to operate as usual. You'll still make plenty of contacts even though your transmitting chain now includes a *known* 1-dB loss.

73,

Dave, W9VES

Date: Mon, 22 Jan 2001 21:03:49 -0500
From: Brian <brian@iquest.net>
To: BenNW7DX@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89325] Re: A-1 Op!!!
Message-ID: <3A6CE685.4CC04193@iquest.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It must be award day!

I got the Basic Appalachian Trail Award #7 in the mail today. Just
opened it, and I must say it is a real nice looking certificate. Good
job from those fine folks at the Eastern PA QRP Club.

72

BenNW7DX@aol.com wrote:
>
> Hello -
> I was pleasanty surprised to find an A-1 Operator Club certificate/award in
> my mailbox today!
> Just wanted to share this exciting news!
>
> 73,
> Ben - NW7DX
> Redmond, WA

--

==
 KB9BVN NORCAL 2792 FISTS 5695 QRP-L 1540 QRP-ARCI 10223
       39.558 N   86.095 W   Johnson Co., Indiana
   GRID: EM69WN - Ten Tec Scout - Attic Dipole - 5w
  Member of the American Radio Relay League - SOC #400
  FISTS Century Club #764/#24 QRP - Flying PIG QRP #-57
==

Date: Mon, 22 Jan 2001 19:25:18 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>, azqrp <azqrp@extremezone.com>
Subject: [89326] Announcement: Ft. Tuthill JunkBox WARS!
Message-ID: <3A6CEB8E.A9C76224@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue:

  You won't believe this, but the AZ ScQRPions have been considering a ham radio version of the TV show Junk Yard Wars, as long as a year or so ago! The idea must have reached all the way to UK land ;) Well, we put our heads together and are ready to announce how we will be handling this new event at Tuthill 2001.

  The Ft. Tuthill hamfest, for those of you new to the list, is held in late July just south of Flagstaff AZ. The ScQRPions host QRP related events at that hamfest each year. These activities include a building contest, door prizes, private group camping, a world class cookout, seminars, and the world famous Campfire. The best part is the camaraderie.

  This year we will also be running an event that we are calling "JunkBox WARS!". We will be providing some additional details later, but here are the general points of the event so far:

  A huge junk box will be provided. There will be 2 main classes. The Standard class, and the Expert, or "Chuck Adams" class. Oh yea, Chuck, did we mention this to you yet? First the Standard class. Each contestant will be given a package which will include schematics for at least 10 simple possible projects. The contestant chooses 1 of the projects, picks up a piece of PCB, some already punched Manhattan Islands, and starts building! Soldering irons will be provided as well. Parts may be obtained from the huge junk box, or bought/bartered/stolen from booths at the hamfest. No parts may be brought into the event, however. A time limit will be imposed. At the great Tuthill Cookout on Saturday night a panel of expert and prestigious judges will judge the entries, and announce the winners. Bribery is optional.
Basic criteria for judging will include:

1.) Does it work?
2.) Were there any useful modifications made to improve the design?
3.) Is it pretty?
4.) Are there any novel additions to the basic circuit that was provided?

The "Chukie" Class will be what might be called an open event. The contestant may build whatever project he/she wishes. They may bring their own paperwork, but no parts. As in the Standard class, all parts MUST be obtained at the event. These entries will be judged on complexity as well as those criteria noted above.

So, what's the purpose of all this?

We want folks to learn firsthand about shortcuts in scratch building.

We want folks to learn how to use several parts to make up custom components, like series or parallel components to reach certain required values.

We want folks to learn how to substitute parts that they may have on hand, or be able to obtain easily.

We want folks to be able to work around each other during the building process, so that ideas and techniques can be exchanged.

We want to have a world class blast of fun!

So folks, think about attending the Ft. Tuthill Hamfest this year. It's going to tough competition, and hands on building galore!

Brian K7RE

Date: Mon, 22 Jan 2001 21:32:53 EST
From: RangerSF5@aol.com
To: dpnewkirk@home.com, qrp-l@lehigh.edu
Subject: [89327] Re: about tuner losses -- "can't be true"
Message-ID: <17.1097dfe5.279e4755@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 1/23/01 3:08:41 AM W. Europe Standard Time, dpnewkirk@home.com writes:

<<
Sure you can. You could be losing "only half an S unit" -- "only 3 dB", or *50% of your power* -- in your tuner and still enjoy plenty of success in QRP work, because 2.5 W is more than enough to work the world, and can easily be "loud" under the right conditions.
>>

You sure are right on that.
About 3 weeks ago I worked a station in France that was running 100 mils.
He stayed on that spot for over 2 hours and as it got later he got stronger.
an easy copy here 339 with mild qsb.
Now if we can educate those KILO WATT hams on HF and try to get them to drop down to 100 watts the bands sure would be better.
I tried to contact my landlord in FL. last week but got blown off the band by some ignorant ham.
Not sure what he was running but he took up a full 10 KC.
I also hear other hams brag how they plow through and smear 100 watters off the band.
Must be from the CB breed.
Don't know CW so kick in the BRICK
Back in my bunker.
Bob
WA2HOQrp <tm>

Date: Mon, 22 Jan 2001 19:05:08 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89328] Feed Line question - This may be asking the obvious
Message-ID: <001501c084e9$54b3f4a0$4099b2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Everyone,
    Just a quick question on feedline. This may be asking the obvious. Antennas are one part of this hobby that I still don't completely understand other that the simple dipole. I understand that it makes a difference in the length of the feedline that you feed an antenna with when using balanced line, and I sort of get that, but what about coax. Does it matter what length the feedline is. Is there a minimum length that you should use, especially on a multi band antenna. I've been reading the 2000 handbook on feedlines, and think that it confused me more than enlightened me! Can someone turn the light on for me. Thanks - and it's time to try and bag the cub fox!

73
Trev
KG6CYN

Date: Mon, 22 Jan 2001 22:06:57 EST
From: RangerSF5@aol.com
To: w5yr@att.net, RangerSF5@aol.com
Cc: QRP-l@lehigh.edu
Subject: [89329] Re: WHAT THE TUNER MANUAL SAYS
Message-ID: <78.f8214ee.279e4f51@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

In a message dated 1/23/01 12:35:24 AM W. Europe Standard Time, w5yr@att.net writes:

<< Glad to be of some help, Bob. Sure wish I had your noise level!
  >>
Well it took a lot of work and even a call to my congressman.
I also recorded the qrm as it was buzzing and then starting to break up.
Two weeks ago I heard KL7MD with my indoor antenna and two State side hams just calling CQ JA and I heard just about every Japan station coming back.
I just looked at the needle on the rig and it's just off the pin except for qrn clashing.
With a lot of crud getting into many other things,
I have a feeling that manufactures of noise generators will start putting out better quality products.
FCC told me that those touch sensor lamps cannot radiate more then 15 feet and that's for the ones that are labeled TYPE FCC ACCEPTED.
Keep SCREAMING.
BTW,
When I use the indoor antenna,
I hit the switch for the fax, answering machine
Also the smart charger puts out some qrm.
Another thing I found was that my computer even when it's off puts out a slight hiss.
Every little bit counts.
Bob
WA2HOQrp <tm>

Date: Mon, 22 Jan 2001 22:09:36 EST
From: NM5Mike@aol.com
To: qrp-l@lehigh.edu
Subject: [89330] Loss
Message-ID: <ff.14c7e71.279e4ff0@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Folks speak of only 3 dB loss.

I remember years ago in a meeting telling my boss that there was "only" 3 dB of loss in a transmit combiner network I had installed.

My boss responded " How about I reduce your salary by 3 dB ?"

Made me think of loss from a different perspective!

73,

Eric NM5M

Date: Mon, 22 Jan 2001 22:11:05 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>
Cc: ")W.D.(Doc)Lindsey/K0EVZ" <70511.3041@compuserve.com>
Subject: [89331] Help--ARS Sojourner SST and NC-40a notes?
Message-ID: <200101222211_MC2-C2BD-F18D@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1
Content-Disposition: inline

Gang:

Anyone tell me exactly where to find the ARS Sojourner's notes on the Wilderness SST series of transceivers? Also interested in their NC-40a notes. Thanks.

72,
--Doc/K0EVZ

Date: Mon, 22 Jan 2001 22:11:08 -0500
From: "Wilford D. Lindsey" <70511.3041@compuserve.com>
To: ".QRP-L Discussion Group" <QRP-L@Lehigh.edu>
Subject: [89332] Cub FOX AF4PS on 7.137 at 0245Z
Message-ID: <200101222211_MC2-C2BD-F18E@compuserve.com>
MIME-Version: 1.0
Content-Transfer-Encoding: quoted-printable
Content-Type: text/plain;
      charset=ISO-8859-1

Content-Disposition: inline

Gang:

Here is your chance to grab some FOX fur :-). Mac AF4PS is spot on 7.137=

at 0245Z. He has a good 569 signal into Bismarck, and call CQ FOX. Mac =
is
a true first class QRPer, and has *terrific* ears. Here's hoping every
hunter will get a pelt tonight. Thanks for a job well done, Mac.

72,
--Doc/K0EVZ

Date: Mon, 22 Jan 2001 22:29:41 EST
From: BenNW7DX@aol.com
To: 70511.3041@compuserve.com, qrp-l@lehigh.edu
Subject: [89333] Re: Help--ARS Sojourner SST and NC-40a notes?
Message-ID: <c8.fc646b5.279e54a5@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Doc -
    On the ARS Sojourner, they have notes on the SST series, which can be
found at
http://www.natworld.com/ars/pages/back_issues/1999_text/1299_text/sst_review.h

tml
    They don't have specific notes on the NC-40a, but I think they have a
references to it somewhere, comparing it to other radio's.

73,
Ben - NW7DX

Date: Mon, 22 Jan 2001 20:31:17 -0700
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [89334] PIC dev environment
Message-ID: <F38y4MoSn03t3Z4d5ht000002c0@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

PIC Guru's,

Need advice.

I've been plowing though PIC postings and documentation, and I decided that the PICSTARTplus kit

http://www.microchip.com/10/tools/picmicro/program/picstart/index.htm

from Microchip, seems like the best deal for around $200. As I understand it I'll get:

o The HW programmer "thingy"

o ANSI-C complier, "lite" version

o ASM

o Dev environment (MPLAB IDE)

o Windows based "simulator" environment

o Doc's

o Cables

To all that I'll add the David Benson book "Easy Pickin's".

Before I thump down $200-250, I just want to make sure it's a good set-up to start with, not missing anything important...yada yada yada. Anything else I want, need, should have, be nice to have??

In some stange way this reminds me of my first Erector Set.

73, Rod N0RC
Fort Collins, CO

Date: Tue, 23 Jan 2001 03:31:12 -0000
From: "TC Dufresne" <tdufres@radiks.net>
To: <qrp-l@Lehigh.EDU>
Subject: [89335] Fox: No joy in Nebraska!
Message-ID: <001701c084ec$f0179700$0501a8c0@computer1>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Gang: Listened at 0330z, no Fox to report. One very loud BC station, sounded Middle eastern, about 7.137mHz. Another BC station around 7.141 Durn! I was ready too! Just finished prepping for my classes tomorrow and was looking forward to some "west and we-waxation... he he he (Elmer Fudd, circa 1040's)Will listen for awhile longer....
Anybody else?
Tom
KC0GXX

Date: Mon, 22 Jan 2001 22:37:41 EST
From: BenNW7DX@aol.com
To: qrp-l@lehigh.edu
Subject: [89336] Fox- The mystical indoor antenna makes it into WA!
Message-ID: <c0.ed34cb3.279e5685@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Mac is about 559 into WA. One call, and I got him!
There's still half an hour left! He's around 7.142 Go get him!

73,
Ben - NW7DX

Date: Mon, 22 Jan 2001 21:40:50 -0600
From: Bob Liesenfeld <wb0poq@visi.com>
To: QRP-L <qrp-l@Lehigh.EDU>
Subject: [89337] Re: Loss
Message-ID: <3A6CFD42.4B124976@visi.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

NM5Mike@aol.com wrote:
>
> Folks speak of only 3 dB loss.
>
> I remember years ago in a meeting telling my boss that there was "only" 3 dB

> of loss in a transmit combiner network I had installed.
>
> My boss responded " How about I reduce your salary by 3 dB ?"
>
> Made me think of loss from a different perspective!
>
> 73,
>
> Eric NM5M

Ha ha! I had a boss like this a few years back when working in Ka band satcoms. If a piece of waveguide calculated out to 1.2dB loss, then by golly it better have NO MORE THAN 1.2dB! Never mind that it was made in our shop with less than perfect alignment...never mind that there was no dry nitrogen blowing water out...never mind the kludge polarizer at the feedhorn..... if it *could* make 1.2dB loss it >must<.

Sigh....

Bob WB0POQ

Date: Mon, 22 Jan 2001 20:29:26 -0700
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Cc: "Adrian Weiss" <aweiss@usd.edu>
Subject: [89338] Re: about tuner losses -- "can't be true"
Message-ID: <3.0.5.32.20010122202926.00990ae0@mail.ida.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Excerpt from a recent post by Adrian Weiss:

>Bob Kellog produced several posting about 4 years ago about results of his
>use of Witt's method. Does anyone know if these are archived somewhere?
>I bought the ZM-2 after he found that it was the most efficient tuner he
>had tested.
>
>

They are on the QRP-L web site under "contributed articles" or some such.

>So, another caution to the learners on this list. Take a reference like "I
>read it on a
>antenna newsgroup" with a grain of salt. B.S.E.E. types don't publish their
>research on newsgroups. Their writing is subjected to peer review -- as is

>the
>case with QST articles -- before it is published. Here ... well, any of us
>non-B.S.E.E.
>types can toss in our two cents and get as much space as the next guy. And we
>do!!!
>

Gee, Ade, does that mean that only PhD's publish on newsgroups? :-)

L.

Date: Mon, 22 Jan 2001 20:46:19 -0700
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [89339] "Subscribing" to the ARCI QRP Quarterly
Message-ID: <3.0.5.32.20010122204619.00939100@mail.ida.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Several folks have asked me how/where to subscribe to the ARCI QRP
Quarterly. Well, you get the magazine by joining the Amateur Radio Club
International (ARCI) and keeping your dues current. You can get info on
joining at the following web site: http://www.qrparci.org/ -- just click on
"Join/Renew?" at the top left corner of the home page. You can pay on-line
with a credit card or print the application form and mail it in.

72/73,
Larry W1HUE/7

Date: Mon, 22 Jan 2001 22:41:38 -0500
From: "Don Wilhelm" <w3fpr@arrl.net>
To: <fxtech@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-
l@Lehigh.EDU>
Subject: [89340] Re: Feed Line question - This may be asking the obvious
Message-ID: <005701c084ee$7fb7aac0$971d103f@dbw11main>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Trev and all,

No matter what the type of feedline, WHEN the far end is terminated in it's characteristic impedance AND ONLY THEN, the near end will have the same input impedance. That is true no matter how long it is, and is one of the first fundamentals of transmission lines.

If the terminating impedance at the far end is something other than the characteristic impedance, there will be standing waves on the transmission line, AND the impedance at the near end of the line will vary as the length varies.

There is no difference between parallel line and coax in this characteristic.

In theory, one can arrive at a feedline length for any particular antenna that has an input impedance that is relatively easy to feed. With multiband antennas, one just might be able to find a length that will have a favorable feedpoint impedance on several bands. You can use the length suggested for any one antenna design as a starting point, but unless your antena is located high enough to approach the characteristics of a free-space antenna, you will have to measure carefully at the antenna terminals or plan to do some experimental pruning.

If you want to be able to predict the input impedance to the line, the easiest way is to plot the corresponding constant SWR circle on a Smith chart, and rotate around the chart by the length of your transmission line expressed in degrees (one wavelength is 360 degrees). You can see how the input impedance changes as you travel along the length of the transmission line by plotting it on the Smith Chart.

I recommend that anyone who is mystified by this change of impedance as the length of line varies to learn to read a Smith chart. I guarantee that by the time you understand how to plot points on the chart, you should be able to see graphically what is happening to the input impedance.

73,
Don Wilhelm -Chapel Hill, NC   W3FPR home page:
http://www.w3fpr.webprovider.com
  QRP-L # 485   K2 SN 0020   mailto: w3fpr@arrl.net

----- Original Message -----
From: "Trevor Jacobs" <fxtech@earthlink.net>
> ... I understand that it makes a difference in the
> length of the feedline that you feed an antenna with when using balanced
> line, and I sort of get that, but what about coax. Does it matter what
> length the feedline is. Is there a minimum length that you should use,
> especially on a multi band antenna.

Date: Mon, 22 Jan 2001 23:37:08 -0500
From: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
To: <K4IA@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [89341] RE: Dumb aerial question - G5RV
Message-ID: <LPBBJAGIPFHKPJENAKLOAEGIDIAA.n1bq@wulfden.org>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> -----Original Message-----
> From: K4IA@aol.com
> Sent: Monday, January 22, 2001 20:17 PM
> To: Low Power Amateur Radio Discussion
> Subject: Dumb aerial question - G5RV

   [snip]

> I think Varney's original G5RV was fed completely with ladder
> line and with a tuner. The modern versions using coax are
> just not the same.

 I am going to have plead some considerable ignorance here and say that I have a G5RV kit I bought at a hamfest 7 years ago that I just put up. It is 102 feet across the top and has 34 feet of 450 ladder line, I used an Emtech center spreader support in place of the insulator provided and its terminated in a W2AU Balun to a 25 foot piece of RG8X to the shack. The ladder line runs down the side of my Rohn 25 tower about 24 inches out from the tower. I tune it using an MFJ 941D.

About the only thing non-standard and original that I did was make two "U"s of 1/2 gray carlon PVC conduit that I duct taped to the tower about 11 and 22 feet above the Balun, the 'bottom' of the "U' being parallel to the tower side and two feet out and just catch the ladder line and tape it to that piece of Carlon at the top and bottom of the section of conduit. That holds the ladder line in 11 foot sections so it is less subject to being blown about by the 50-90 mph winds gusts we see here often in the Winter months

I can get 1.1 to or better on 160m-12m and on 10 meters I use a vertical. I know that with the specific orientation I have a few weaker spots on the compass, but all in all I have gotten great signal reports

from all over the world and often very often surprise by my contacts
that the G5RV does so well. I take little credit other than
successfully following the written instructions and maybe being a fair
hand at tuning the MFJ! But my G5RV is one of those 'modern versions,'
and it works just fine!

Date: Mon, 22 Jan 2001 20:42:42 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@Lehigh.EDU>
Subject: [89342] Re: A-1 Op!!!
Message-ID: <002701c084f6$eda66460$d7d4fc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Congratulations, Ben.
You are certainly an example of what an A-1 Op should be.
Please stay on the air as much as you can.
73, Bob N6WG

Date: Tue, 23 Jan 2001 05:02:04 -0700
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [89343] FS - Audio Filter & Voice Keyer
Message-ID: <3.0.5.32.20010123050204.0096d6d0@mail.ida.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I have the following items for sale:

1. Autek Research QF-1A SSB/CW/AM Audio Filter (analog).
   Intended for use between receiver audio output and speaker/phones.
   Can select Peak, Notch, Low Pass or High Pass filter functions with
   variable selectivity and center frequency. Separate "Aux. Notch" filter
   that can be used in conjunction with main Peak/Notch/LP/HP filter.
   Operates from 115VAC or 12VDC. Only mods are added jack for 12VDC input
   and stereo phone jack (both on rear panel). With documentation. Like new
   condition. Good QRM fighter. $50 plus shipping.

2. Ramsey "Chatter Box" Digital Voice Recorder. Records up to 20 seconds
   from internal or external microphone. Can be set up for one 20 sec.,

two 10 sec. or four 5 sec. messages. (See review on page 48 of the April 1996 ARCI QRP Quarterly.) I will include an external switch box and connecting cables that allows output to be switched between a speaker and your rig's microphone input, and input to be switched between an external mic and your rig's audio output (for off-the-air recording). Great for SSB contests. $35 shipped plus shipping (all docs included). Original cost of the kit + case was $75. MFJ's voice keyer lists for $175.

72/73,
Larry W1HUE/7

Date: Mon, 22 Jan 2001 21:13:27 -0500
From: Shelly Somerville <somerville@uniserve.com>
To: w3fpr@arrl.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89344] Re: Feed Line question - This may be asking the obvious
Message-ID: <3A6CE8C7.BD57BE84@uniserve.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

But where do you find out about Smith Charts? My copy of the Handbook glosses over the matter.
Regards John/VE7CFG

Don Wilhelm wrote:

> Trev and all, ...
> ...
> I recommend that anyone who is mystified by this change of impedance as the
> length of line varies to learn to read a Smith chart. I guarantee that by
> the time you understand how to plot points on the chart, you should be able
> to see graphically what is happening to the input impedance.
>
> 73,
> Don Wilhelm -Chapel Hill, NC W3FPR home page:
> http://www.w3fpr.webprovider.com
> QRP-L # 485 K2 SN 0020 mailto: w3fpr@arrl.net

Date: Tue, 23 Jan 2001 00:28:15 -0500

From: "ZOOM" <kandrparker@sympatico.ca>
To: <somerville@uniserve.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89345] Re: Feed Line question - This may be asking the obvious
Message-ID: <000901c084fd$49970440$39cdfea9@einstein>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Here is a good site with a good explaination on SMITH CHARTS.
http://sss-mag.com/smith.html

Cheers,
Robert
VE3RPF
----- Original Message -----
From: Shelly Somerville <somerville@uniserve.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Monday, January 22, 2001 9:13 PM
Subject: Re: Feed Line question - This may be asking the obvious

> But where do you find out about Smith Charts? My copy of the Handbook glosses
> over the matter.
> Regards John/VE7CFG
>
> Don Wilhelm wrote:
>
> > Trev and all, ...
> > ...
> > I recommend that anyone who is mystified by this change of impedance as the
> > length of line varies to learn to read a Smith chart. I guarantee that by
> > the time you understand how to plot points on the chart, you should be able
> > to see graphically what is happening to the input impedance.
> >
> > 73,
> > Don Wilhelm -Chapel Hill, NC W3FPR home page:
> > http://www.w3fpr.webprovider.com
> > QRP-L # 485 K2 SN 0020 mailto: w3fpr@arrl.net
>
>

Date: Mon, 22 Jan 2001 21:56:03 -0800
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: <qrp-l@Lehigh.EDU>
Subject: [89346] Re: Announcement: Ft. Tuthill JunkBox WARS!
Message-ID: <005401c08501$2db6f380$4bbdc03f@DougHendricks>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Brian, you forgot to mention the pickin' and grinnin' led by Mike "the
Picker" Connor. I hear that it is on again for this year. Sure hope so, as
I have been playing every night to get ready.

Guys, Fort Tuthill is a must attend once in your lifetime event that turns
into an annual trek. Bring the family and wife to this one!! 72, Doug

----

Date: Tue, 23 Jan 2001 08:08:14 GMT
From: "Adrian Weiss" <aweiss@usd.edu>
To: qrp-l@Lehigh.EDU
Subject: [89347] Re: What tuner manual says
Message-ID: <G7LQ9R03.RG7@mail.usd.edu>

Hi Gang:
Bob summarized the tuner manual statement:

>From the Yaesu owner manual it says.
"It should be noted that matching from the shack with the FC 901 will have no
affect on losses due to SWR on the coax line between the tuner and the antenna."

This is the key statement. It is not about tuner loss, but about the
loss that occurs on a feedline due to SWR. It correctly states that
SWR loss on the feedline is solely due to the mismatch between
coax surge impedance and the feedpoint impedance at the
antenna terminals.

"The operator should consult one of the popular antenna hand books to
determine weather or not matching between the coax line and the antenna must be
performed AT THE ANTENNA."

What this says is: (1) determine the likely feedpoint impedance (2) plug that into
the SWR formula with the coax surge impedance (3) calculate
what the SWR is likely to be, and (4) determine the amount of feedline

loss tht occurs at that SWR. If it is high, then you have to match
feedline and antenna at the junction of the two. If it is acceptable,
then you accept the amount of SWR loss and live with it.

"So this is telling me that the antenna can be ANYTHING as long as the tuner can
provide the 50 ohms to make the transmitter happy."

Not exactly. "ANYTHING" includes a resistor, a dead short, a wet
rat. Taken together, the statements say the opposite. To rephrase
it: "the antenna can be ANYTHING as long as the tuner can provide the 50 ohms to
make the transmitter happy, BUT WILL IT MAKE YOU
HAPPY IF MOST OF YOUR POWER IS BURNT UP IN THE COAX?".

In one sense, the tuner mfr is doing a "small print" number here. If you
used the ANYTHING ant. and never worked anyone, finally called
tuner mfr tech support, their first question would be: "what kind of
antenna and feedline are you using?" You say "Oh it's just this
ANYTHING I tossed up the other day," their answer would be: "AHA!
your problem is the antenna system, NOT our tuner!" Then they'ed
read back to you the statments you quoted from the manual.

Oh well, maybe the humor comes thru just a bit ...? :(guess not...
back into my hole...

72, Ade

Date: Tue, 23 Jan 2001 00:04:54 -0600
From: Bryn Joynes <bryn@pcpractice.com>
To: qrp-l@lehigh.edu
Subject: [89348] Re: Cub FOX AF4PS on 7.137 at 0245Z
Message-ID: <3A6D1F06.19A74F5E@pcpractice.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I second Mr. Lindsey's remarks. I called Mac and bang he came back, he
should be called a rabbit not a fox with hearing like that.. Now I been
around radio sometime, but I'm just getting back into CW so I hope he
forgives me for my poooooor operating. Forgot to send my power in my
excitement. Three pelts in a week and a half from TN.

On a side note, I noticed that we don't seem to have too many contacts
from TN. Hopefully I will change that....

Bryn

Bryn Joynes (N4VM EM65LO)   Primary Care Practice, P.C.
bjoynes@collug.org   http://www.collug.org   ICQ 5656763
bryn@pcpractice.com   http://www.pcpractice.com
================ "Wellness is a Partnership" ================

Date: Tue, 23 Jan 2001 01:44:26 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [89349] QRP Quarterly (QQ) Comments
Message-ID: <Pine.BSF.4.21.0101230117310.75924-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I just received my copy of the January 2001 QRP Quarterly Journal in the mail yesterday. No, I don't have the back issues stock yet. I understand that they are in route. I will be mailing out about 20 advance requests as soon as they arrive. The New Postage rates are awful, but we will survive.

I noticed that our Editor (Craig Behrens, NM4T) <Craigwb@HiWaay.net> has just posted a "SPECIAL DEAL" $ 20 for new members or Late Renewals. That is 5 issues for $ 20.00 (I might add that he has the Current issue in stock)

You can of course rush to the QRP ARCI Website <http://www.qrparci.org/us2signup.html> and Subscribe or Renew on line right now.

I am reasonably sure that we can get Jim (W4QO) to extend the "Special Offer" to the Website Renewals as well.

I almost forgot to make my comments...

At first glance you will think you have just received a "New Professional Radio Journal"   It is 64-68 Pages depending on how you count.

(64 Text Pages plus Front and Back Covers).

Thanks to Kimberly (Craig's Talented Daughter) for the Outstanding Cover.

I have not had a chance to proofread the whole issue yet, but I am very impressed.

I found one TYPO, I challange you to read the whole issue and report your comments to Craig Behrens, NM4T. Maybe you will find it, or another, but I promise that you will not be disappointed in what you read.

I did not check my contribution against what appeared here on qrpl, but it sounded better in the QQ. :^)

Even if you don't find anything wrong with the issue, please send Craig your comments and Contributions. Remember, it is our publication and it's content depends on us.

Is that Cover Great or what ? (Both Front and Back!)

Sir George, The First :^)

72 ES
QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Locksmith Services
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Date: Tue, 23 Jan 2001 02:14:27 EST
From: Macstein@aol.com
To: qrp-l@lehigh.edu
Subject: [89350] FOX - Cub Draft Log AF4PS 1-23-01
Message-ID: <c4.ed1f27d.279e8953@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Below is the first effort at a log, corrections are welcome!

The last hour was pretty frustrating. I'm sorry I could not pull out several stations. Lost one or two mid-exchange. I moved down at the begining to avoid a QSO, and then back up to get out of the BCI. The last hour I tried 7.142, 7.137 and 7.141, all three antennas, listening high, low, on...RIT, Both VFOs split, DSP, all 4 filter settings. Nothing the last 15 minutes. YUK.

I also did not computer log - again - so chicken scratching log results are in need of your assistance. I have lots of partials, but the CLEAREST are noted below.

Highlights for me were catching WB8UOJ, my 2n2-40 building partner for his first pelt, and catching Ben, NW7DX on the indoor dipole rather than the loop. The FL station (Paul) was the hardest to hear and the ONLY FL I got !!! Ken N4SO in AL was 599 just before the hunt, Diz W8DIZ in OH also and copied my "QRL? V" five minutes prior... but I didn't hear either of them later?! I'm sorry guys!

Karl was that you at 0302???? DI???

1.	0201	KV4EE	559	SC	Craig	5w
2.	0203	K9IUA	559	ND	Kevin	5w
3.	0207	K0EVZ	569	ND	Doc	3w
4.	0208	VA6RF	559	AB	Earl	5w
5.	0209	AJ4AY	599	AL	Jay	5w
6.	0211	AC5JH	559	OK	Tom	2w
7.	0213	AF4PP	599	GA	Chuck	4w
8.	0214	KC1FB	559	CT	Jim	5w
9.	0215	AB8DF	559	MI	Ed	5w
10.	0216	W9WIS	559	WIS	Mike	5w
11.	0217	KK5LD	559	TX	Dan	5w
12.	0218	N4ROA	559	VA	Dan	4w
13.	0220	K5PSH	559	TX	Jerry	4w
14.	0221	W0CH	589	MO	Dave	5w
15.	0223	KU4TN	559	VA	James	500mw
16.	0224	KJ0C	559	MO	Jim	5w
17.	0225	K5DW	559	TX	Don	5w
18.	0226	WB8UOJ	459	OH	Bob	5w
19.	0227	W5YR	559	TX	George	5w
20.	0230	W3ERU	559	MD	Wei	4w (William?)
21.	0231	N8VAR	559	OH	Ron	5w
22.	0232	KA1DDB	559	MI	Mike	5w
23.	0237	AA7EQ	559	AZ	Bob	5w
24.	0239	VE3FAL	559	ON	Fred	5w
25.	0241	N4VM	559	TN	Bryn	5w
26.	0243	N5IB	559	LA	Jim	5w
27.	0245	N5GLQ	559	LA	Mike	5w
28.	0247	W5ZF	559	NM	Irv?	5w
29.	0249	W5YW?	559	LA	Bert	5w
30.	0253	AA7XA	559	OR	Frank	5w
31.	0255	KB9YIG?	559	IN	Bob?	5w
32.	0301	KB3EOF	449	MD	Murph	5w
-	0302	?DI	?	?	Karl?	?
33.	0303	W3PNL	599	PA	Joe	3w
34.	0304	AF4LQ	569	KY	Mike	5w

35. 0305 KK5D 559 TX Dan 5w
36. 0307 ?0DJQ? 559 MN Dick? 5w
- 0309 0KLV? 559 MN Kg? 5w
37. 0311 KI0II 559 CO Ron 5w
38. 0313 W8YMO 559 OH Harry 5w
39. 0315 NV4V 579 KY Pete 5w
40. 0316 K5OI 559 NM Tim 5w
41. 0323 NM5M 569 TX Eric 5w
42. 0326 NW7DX 559 WA Ben 5w (on the IAD!)
-. 0329 ?RLO 559 ? ? 5w
43. 0331 N0TU 569 CO Steve 5w
44. 0333 N3AO 559 PA Carter 5w
45. 0337 WR5O 559 TX Dave 5w
46. 0338 WB8WTU 559 OH Dennis 5w
47. 0340 K4FB 229 FL Paul 5w
48. 0400 AF4PS 559 FL Mac 4w

Date: Tue, 23 Jan 2001 02:27:38 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Cc: G-QRP Club E-mail Reflector <gqrp@onelist.com>
Subject: [89351] Silver Plating Antenna Wire
Message-ID: <Pine.BSF.4.21.0101230205360.75924-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I forgot the origional Subject line, but the idea of Silver Plating for improved RF preformance was, I thought a recognized fact. Now we are all wondering if it is true or not. I know Uncle Sam sure has spent a lot of money on Silver Plating Tank Circuits and Components over the years.

Even many of those beautiful Classic Rigs of old had Silver Plated Plumbing in their innards. Were they wrong? I doubt it.

This business of Oxidation got me to thinking, maybe we could get more mileage out of our Antennas by Silver Plating the Wires and Elements.

Can you silver plate Aluminum? How about Electro Plating a roll of "Silky Sixteen" for the "Ultimate Loop" ?

Some one here mentioned that insulated wire was quieter. I agree, probably because the strands soon oxidize and/or corrode and start rubbing together making their own noise. Ever wonder if maybe the oxidation is also causing RFI along with your signals? We know it does at VHF, so why not HF as well?

Maybe SilverPlating and an Annual Antenna Cleaning with "Silver Polish" with do the trick. Remember the good old "Antenna Wax" ?

Who says it didn't work? Can you prove it. :^)

I am reminded that some of my best Dipoles were made with #16 Tinned Bare Copper Wire (AT&T Telephone Lashing Wire). The only problem was that a nick in the wire would case a failure in short order. OTOH it was real easy to repair with a quick Western Electric Splice. Besides the wire was free. What more do you want. :^)

Have some good antenna ideas? Why not share them with us for the April issue of the QRP Quarterly Journal. Send them to Craig Behrens, NM4T <craigwb@hiwaay.net>

Back to my Semi-Chrome Polish... :^)

Sir George, The First :^)

72 ES
QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Locksmith Services
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

Date: Mon, 22 Jan 2001 23:34:19 -0800
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89352] 30 meters
Message-ID: <014101c0850e$e62fc2e0$4099b2d1@tjacobs>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Everyone,
    I just have a quick question. Why are we killing ourselves on 40 meters with all of the BC when 30 Meters is wide open??? 30 meters seems to be the natural band for QRP ops. Take care...

73
Trev
KG6CYN

Date: Tue, 23 Jan 2001 03:12:07 -0500 (EST)
From: Bob Patten <n4bp@bc.seflin.org>
To: QRP-L Reflector <qrp-l@lehigh.edu>
Cc: Elecraft Reflector <elecraft@qth.net>
Subject: [89353] N4BP MI QRP Contest
Message-ID: <Pine.3.89.10101230331.A130-0100000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII
Content-Transfer-Encoding: QUOTED-PRINTABLE

2001 MI-QRP CLUB CONTEST
=20
Call used: N4BP Location: FL
Category: Single Op All Band Mode: CW Power: 5W
Callsign of Operator: N4BP
=20
Exchanged Information: N4BP RST FL 5W
=20
Hours of Operation: 13:19
=20
band QSOs points mults
=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=
=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4
160 2 4 1
80 2 4 1
40 16 44 11
20 63 172 40
15 50 157 32
10 28 98 20
=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=
=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4=C4
TOTAL 161 479 105 =3D 50,295 X 1.5 (Homebrew stati=
on)

SCORE: 75,442.5
=20
Comments: Elecraft K2 @ 5W
TH7-DXX @ 65ft, 402BA @ 50ft, Dipoles

Very low level of participation. Disappointing since

condx were excellent. =20

=09   73,
=09=09=09=09   ,'' '',
     Bob Patten, N4BP   (0 0)   Plantation, FL=20
_____________________________oOOo-(_)-oOO_____________________________=
____

                        E-Mail: n4bp@bc.seflin.org
                    Web Page: http://www.qsl.net/n4bp
                    Brass Pounder BBS: (954) 472-7715=20

  QRP ARCI #3412   FISTS #7871   ARS #799   SOC #1   Whiners #6

Date: Tue, 23 Jan 2001 08:39:09
From: "Leon Heller" <leon_heller@hotmail.com>
To: n0rc@hotmail.com, qrp-l@Lehigh.EDU
Subject: [89354] Re: PIC dev environment
Message-ID: <F1659xDbH8J0sca0Zkf000008b7@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

>>I'll get:
>
>o The HW programmer "thingy"
>
>o ANSI-C complier, "lite" version
>
>o ASM
>
>o Dev environment (MPLAB IDE)
>
>o Windows based "simulator" environment
>
>o Doc's
>
>o Cables

The compiler is crap. We gave up on it at work (we had the full, expensive
version) and got the Hitech one. It has some problems of its own, with the
18Cxxx chips, but is OK with the others.

You don't really need to spend much on hardware/software. You can build your
own programmer, download all the software free from the Microchip web site,

and make your own development boards using stripboard. You are really just paying $200 for the programmer.

73, Leon

--
Leon Heller, G1HSM Tel: (work): +44 1327 357824 (home): +44 1327 359058
Email:leon_heller@hotmail.com My web page:
http://www.geocities.com/leon_heller IRISYS Ltd: http://www.irisys.co.uk

---

Date: Mon, 22 Jan 2001 18:53:14 -0700
From: "John A. Evans - N0HJ" <jaevans@codenet.net>
To: unlisted-recipients:; (no To-header on input)
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89355] Re: Barnes/ARRL Handbook
Message-ID: <3A6CE409.569CFFC8@codenet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Shoot, now I need to find a source for that rulebook, and hopefully it won't cost more than $32 !!

72 - john - n0hj

> A Handbook is something you buy about every 8-10 years.

Date: Tue, 23 Jan 2001 05:40:40 -0500
From: David Newkirk <dpnewkirk@home.com>
To: qrp-l@Lehigh.EDU
Subject: [89356] Re: What tuner manual says

Message-ID: <3A6D5FA8.2112334@home.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bob, WA2HOQ, wrote:

"From the Yaesu owner manual it says.
It should be noted that matching from the shack with the FC 901 will have no
affect on losses due to SWR on the coax line between the tuner and the antenna.
The operator should consult one of the popular antenna hand books to determine weather or not matching between the coax line and the antenna must
be performed AT THE ANTENNA
So this is telling me that the antenna can be ANYTHING as long as the tuner
can provide the 50 ohms to make the transmitter happy."

Yes, but in effect, what this is saying is that whatever loss occurs as a result of an impedance mismatch between the feedline and the antenna isn't the tuner's fault. This is true information, but not necessarily useful in this case if it results in the inference you've made. It doesn't mean that the tuner doesn't introduce loss, and it also doesn't mean that absolutely anything you put at the end of the feedline -- which could be a short or an open or anything in between -- will work as a *useful* antenna with this tuner.

The introduction of a feedline introduces at least two other loss mechanisms: the line's loss when it's matched (even the best line dissipates some power when it's terminated in a load equal to its characteristic impedance) and the line's *mismatch loss* (additional loss that occurs as a result of any impedance *mis*match between its load and its characteristic impedance). A tuner at the station end of the line can't do anything about either, and this is what the Yaesu text dances around.

Depending on the line type and length, and the degree of mismatch, mismatch loss can be amazingly high -- on the order of *tens of decibels.* You'd likely encounter a mismatch loss of such magnitude when feeding an electrical-very-short dipole (such as a 40-meter dipole used at 160) with a length of garden-variety coax (RG-58 or 8). Whatever the impedance of such a system is at the station end of the cable, a tuner of the right design can transform it to 50 ohms, but the mismatch loss of the cable will make this arrangement inefficient as an antenna *system*.

Seemingly paradoxically, in such a system, connecting an appropriate resistance across the antenna feedpoint may actually *increase* the power radiated by the system because the mismatch reduction it achieves may reduce the line's mismatch loss by much more than the additional dissipation it introduces. This is how resistively loaded dipoles work, and why they can be appropriate technology under appropriate circumstances.

73,

Dave, W9VES

Date: Tue, 23 Jan 2001 06:09:40 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: kandrparker@sympatico.ca
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89357] Re: about tuner losses
Message-ID: <3A6D6674.ABC8459E@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Robert,

Sure, there is a lot of friction out there, but the really important friction is between technically qualified people and their work is subjected to peer reviews.

Ham radio is a hobby, and the educational requirements are reduced quite a lot, but the theory is basic. To say hams are qualified to join in the 'friction' between technical peers is just plain wrong! If you want to be an antenna engineer and break new ground, your local college will help you get the education!

73

Date: Tue, 23 Jan 2001 06:44:41 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: w1hue@amsat.org
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89358] Re: "Subscribing" to the ARCI QRP Quarterly
Message-ID: <3A6D6EA9.92DCA4A1@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Larry,

You only told half the story! PayPal requires an email address for the recipient of a payment. They will not accept QRP-ARCI. I used Craig Berhens address but there may be a better route. You should tell us!

73

Date: Tue, 23 Jan 2001 07:51:50 -0500
From: "Pastor-KC1DI" <elbc@pivot.net>
To: <fxtech@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89359] Re: 30 meters
Message-ID: <003301c0853b$41f7d6e0$ca7961ce@elbc>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, January 23, 2001 2:34 AM
Subject: 30 meters

> Hi Everyone,
>   I just have a quick question. Why are we killing ourselves on 40 meters
> with all of the BC when 30 Meters is wide open??? 30 meters seems to be the
> natural band for QRP ops. Take care...
>
> 73
> Trev
> KG6CYN
Ditto Trev

I whole heartily agree, Worked dxcc and many hours of qrp fun on 30 meters.. great qrp band.. But I suspect the answer to your question lies in the fact that 40 meter rigs are very available.

73 Dave KC1DI

Date: Tue, 23 Jan 2001 08:03:47 EST
From: K4IA@aol.com
To: somerville@uniserve.com
Cc: qrp-l@lehigh.edu
Subject: [89360] Re: Feed Line question - This may be asking the obvious
Message-ID: <c8.fc50ff9.279edb33@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

John

There is a good two-part article on Smith Charts in the January and February 1966 QST. You can down load it from the ARRL website. Use the SEARCH SITE feature and you'll find lots of good tuff.

Too bad it is all over my head. ;-)

Radio K4IA
Craig Buck
Fredericksburg, Virginia USA
QRP ARCI #2550 FISTS #6702 CC 788

Date: Tue, 23 Jan 2001 07:06:15 -0600
From: Steve Yates - AA5TB <aa5tb@arrl.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89361] Re: 30 meters
Message-ID: <005101c0853d$45a340c0$47773ed8@aa5tb>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

Hi Trev,

You're absolutely correct. 30m is great!

Only one "problem". Contest (including QRP contest) are not allowed on 30m
and this is why many QRPers stay on 40m. Another issue is that only General
class and above have access to 30m, no Novice subband.

Other then that, 30m has great 24 hour a day propagation to somewhere, easy
DX, nice ragchews, and no contest.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
aa5tb@arrl.net
http://www.geocities.com/aa5tb

Date: Tue, 23 Jan 2001 08:12:46 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <dpnewkirk@home.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89362] Re: about tuner losses
Message-ID: <200101231312.IAA29406@mail2.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 1/20/01 20:44, David Newkirk at dpnewkirk@home.com wrote:

>Glen Leinweber wrote:
>
>> My main point is that a
>> good tuner shouldn't get hot, eating up transmitter power.
>
>Because all tuners are made from real, not ideal, components, all tuners
>dissipate some power. At QRP levels, even with a tuner whose losses
>might be numerically unacceptable, we may not be able to feel the
>resulting heat. So perhaps it would be better to say that a good tuner
>*minimizes loss*.
>
>Tuner losses on the order of 0.5 dB -- "only a half dB," we'd say -- can
>be common when we're unable to quantify tuner performance.

I seriously doubt tuner losses are that high. See below.

>If your tuner exhibits a loss of 0.5 dB, the power available at its
>output is 89% of the power at its input; it dissipates *11%* of its
>input power, which sounds more significant than "only a half dB." So 100
>W at the tuner input becomes 89 W at the tuner output; for 1 W input,
>the output is 0.89 W, and so on.

Consider -- if it's really 0.5 dB, then running full legal 1500 watt power, a tuner would disappate 161 watts. Any normal tuner cabinet would get HOT just after a few minutes.

Even at 100 wats, 11 watts of disappation would be noticable after several minutes of operating.

I've never encountered at hot tuner cabinet at any power level. I can only surmise that tuner losses are much lower than you're conjecturing. Indeed, I think that feedline losses far outweigh tuner losses.

>Dissipating 11 W may.

Touch a 4W night light after a minute. Now imagine having three of these things inside your tuner. It wouldn't take long to produce noticable warmth. I haven't see that happen.

>For 1 kW, the
>dissipation becomes 110 W -- signifcant power.

Which would certainly require ventilation holes. Gee, my 2kW Murch tuner doesn't have any. Perhaps tuner losses aren't nearly as great as you think.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
-- Wilbur Wright, 1901

Date: Tue, 23 Jan 2001 06:31:00 -0600
From: Ken Brown <n4so@juno.com>
To: qrp-l@lehigh.edu
Subject: [89363] ARRL Handbook 2001
Message-ID: <20010123.071122.3790.5.n4so@juno.com>

-One extra copy from Barnes and Noble
and still in the plastic wrap.
Who absolutely needed a new copy and was not
able to get one?

Ken Brown N4SO
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element mono. yagi

Elecraft K1 #260

Date: Tue, 23 Jan 2001 07:03:55 -0600
From: Ken Brown <n4so@juno.com>
To: qrp-l@lehigh.edu
Subject: [89364] Vectronics Tuners
Message-ID: <20010123.071122.3790.6.n4so@juno.com>

Vectronics Corporation Inc.
Vectronics tuners are also good.
They were made in Canada or still are,
and found in the MFJ catalog page 53.
I have one of the 300 watt models and the
construction is superior to the MFJ.
http://www.vectronics.com

Ken Brown N4SO
Mobile, AL EM50tk
NorCal 20 at 5 watts
4 element mono. yagi
Elecraft K1 #260

Date: Tue, 23 Jan 2001 08:26:01 -0500
From: John R Kirby <n3aaz-qrp@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [89365] No Loss Feed Line, End Fed Ant System
Message-ID: <20010123.082606.-259131.0.n3aaz-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

All this stuff about tuner loss and feed line loss is true . . .

Here is a system that uses NO feed line and
only TWO components in the tuner (one >L< and one >C<)
that will match the Smith Chart yin / yang curves,
i.e., there is most likely no point on the 'chart
the network will not match to 50 Ohm.

Revisit the >L< Network.

For a 'how to build' article
see QRPp, Summer 2000, page 4 . . .

If you do not have access to that article
I will send you a copy via e-mail to include
attachment drawings.

RE . . . virus free attachments . . .

FIRST send me a secret 'pass-word' .

NOT by your ATTACHMENT and
NOT to this qrp-l list but
direct to me at >n3aaz-qrp@juno.com<

I will then send that 'pass word' back to you
included in the (my) attachment Subject Line.

John
N3AAZ
FM 19 xa

Date: Tue, 23 Jan 2001 08:30:41 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <aa5tb@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89366] Re: 30 meters
Message-ID: <008f01c08540$b19afea0$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;

```
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I never ever even listened to the WARC bands before my K2.  My
previous radio was a SWAN and it only had the pre-WARC bands
of 80/40/20/15/10.  Finding people on 17 for example was an incredibly
pleasant surprise!  It's relatively empty, and when you find someone
(there's always a couple of QSOs going on) you can easily join in
even with QRP.  I think the last contact I made on 17m I was the only
one running less than 700W, and I was right there in the group with my
K2 dialed back to 5W.

Hmm, some people might be concerned about what you call a 'problem'.

MY concern is that some people may try to FIX that 'problem'.

The WARC bands are like your own private sparsely populated
universe...

Mike



> Hi Trev,
>
> You're absolutely correct.  30m is great!
>
> Only one "problem".  Contest (including QRP contest) are not allowed
on 30m
> and this is why many QRPers stay on 40m.  Another issue is that only
General
> class and above have access to 30m, no Novice subband.
>
> Other then that, 30m has great 24 hour a day propagation to somewhere,
easy
> DX, nice ragchews, and no contest.
>
> 73,
> Steve Yates - AA5TB
> Fort Worth, TX - EM12gs
> aa5tb@arrl.net
> http://www.geocities.com/aa5tb
>
>


------------------------------
```

Date: Tue, 23 Jan 2001 08:06:19 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <mgoins@usa.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89367] Re: 10 m contest
Message-ID: <200101231301.IAA02234@mail0.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 1/20/01 15:03, Michael Goins at mgoins@usa.net wrote:

>I'm sort of out of the loop on contests, but there si something going on
>on 10
>meters at the moment. Worked 44 states at 400 mw ssb. Like shooting fish in a
>barrel.

That was the North American QSO Party. It's a great contest. Single ops
operate 10 out of 12 hours on six bands. Best part is -- everyone is
limited to 100 watts, and you can't use an amplifier capable of more.
It's really intended to be an exciter-only contest.

NAQP has replaced SS as my favorite contest. It's short, fun, has
strategy, and it happens several times a year. CW and SSB happen in
January and August, and RTTY is in July (I think).

See the National Contest Journal web site <http:://www.ncjweb.com/>, for
full rules and details.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
  -- Wilbur Wright, 1901

Date: Tue, 23 Jan 2001 08:32:54 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <nf9k@eudoramail.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89368] Re: K-2 Building
Message-ID: <009b01c08541$00a29f80$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
  charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> All,
>

> Thanks for the tons of input on the K2. I've decided to build it
myself no matter how long it takes but I better get moving because I
want to have it done by Field Day! (Maybe I can find 1 hr /day...)
>
> Time to start selling other stuff to get the $ for the K2 - and fast!
>
> Joel NF9K

You realize of course that we expect status reports!

And in a timely manner!

And of course there are some of us who will lining up to try to be your
first K2 contact.

BACK OFF ED!!!!

Mike

Date: Tue, 23 Jan 2001 08:26:39 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <dpnewkirk@home.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89369] Re: about tuner losses -- "can't be true"
Message-ID: <200101231314.IAA07261@mail1.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 1/22/01 20:55, David Newkirk at dpnewkirk@home.com wrote:

>The only way a short circuit (a 0-ohm load) can be made to look like a
>50-ohm load (which would result in an SWR of 1 in a 50-ohm system) is to
>connect a 50-ohm resistance in series with it. By subtraction, this
>means that the tuner alone must be acting like a 50-ohm resistor --
>something that *should not happen* with a matching network that's
>properly designed and well-implemented.

Looking at the article in question, I don't see where Witt used a
dead-short. Besides, even a short piece of wire has SOME resistance,
unless it is a superconductor.

Was there some special test using cryogenic antennas that I missed in the
article?

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
  -- Wilbur Wright, 1901

Date: Tue, 23 Jan 2001 07:45:10 -0600
From: "Larry Gaalaas" <lgaalaas@qwest.net>
To: n0rc@hotmail.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89370] Re: PIC dev environment
Message-ID: <00bf01c08542$b47cfe00$0300000a@larry>
MIME-Version: 1.0
Content-Type: text/plain;
  charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Try the simulator, it is great for understanding how the instructions
execute by letting you run one instruction at a time and see all the
results.
----- Original Message -----
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Monday, January 22, 2001 9:31 PM
Subject: PIC dev environment

> PIC Guru's,
>
> Need advice.
>
> I've been plowing though PIC postings and documentation, and I decided
that
> the PICSTARTplus kit
>
> http://www.microchip.com/10/tools/picmicro/program/picstart/index.htm
>
> from Microchip, seems like the best deal for around $200. As I understand
it
> I'll get:
>
> o The HW programmer "thingy"
>
> o ANSI-C complier, "lite" version
>
> o ASM
>

> o Dev environment (MPLAB IDE)
>
> o Windows based "simulator" environment
>
> o Doc's
>
> o Cables
>
> To all that I'll add the David Benson book "Easy Pickin's".
>
> Before I thump down $200-250, I just want to make sure it's a good set-up
to
> start with, not missing anything important...yada yada yada. Anything else
I
> want, need, should have, be nice to have??
>
> In some stange way this reminds me of my first Erector Set.
>
> 73, Rod N0RC
> Fort Collins, CO
>
>
>

Date: Tue, 23 Jan 2001 07:47:22 -0600
From: "Larry Gaalaas" <lgaalaas@qwest.net>
To: fxtech@earthlink.net, " Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89371] Re: 30 meters
Message-ID: <00d601c08543$03491c80$0300000a@larry>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OK, I'm spending more time on 30M. Always have liked that band. Easy DX
with QRP. I have an SW30 that I hope to get around to building soon.
CUL ON 30M,
Larry kb0r
----- Original Message -----
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, January 23, 2001 1:34 AM
Subject: 30 meters

> Hi Everyone,
>   I just have a quick question. Why are we killing ourselves on 40
meters
> with all of the BC when 30 Meters is wide open??? 30 meters seems to be
the
> natural band for QRP ops. Take care...
>
> 73
> Trev
> KG6CYN
>
>

Date: Tue, 23 Jan 2001 09:31:08 -0500
From: "Larry Spinner" <n2icz@hotmail.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89372] Re: 30 meters Foxhunt ok?
Message-ID: <OE9gmSknvh7wFI1ZG5y000001ef@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;   charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Would a 30 meter Foxhunt be considered a contest? Or simply an on air
"activity"? It might be worth exploring some sort of "net" with activity
associated with it and just not call it a contest!

N2ICZ

> > You're absolutely correct. 30m is great!
> >
> > Only one "problem". Contest (including QRP contest) are not allowed
> on 30m
> > and this is why many QRPers stay on 40m.

Date: Tue, 23 Jan 2001 09:33:02 -0500
From: Nils R Young <nilsbull@juno.com>
To: QRP-L@lehigh.edu
Subject: [89373] More tube radios &c
Message-ID: <20010123.093312.-239763.1.nilsbull@juno.com>
MIME-Version: 1.0
Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Gang,

Found an interesting site the other day:
http://webhome.idirect.com/~jproc/crypto/

I find it interesting that this stuff should have been (or may have been) declassified. Some of it since the '80s. I think that was the "Pollard Interval." A whole family of security breeches. Or britches. Wheechever. But then it's likely that the computer you're looking at this email on has all the capabilities (sans the tempest hazard & RFE requirements of any cryptogear) of at least reproducing, if not surpassing, the capabilities of the machines you'll find listed at that site.

And then there's the Hallicrafters S-38 that one of the telecomm guys found in the house he just bought. I told him to bring me the next thing that looks like a transmitter. Hope he does. Be kinda neat to have 14 radios in the office. The other 12 are gettin' lonely.

All I need now is some compressed air (to blow the dust around) and a pile of dial cord. Been years since I did one of thems. Learned to tie some interesting knots back then. Especially the ones that held.

I wonder if dental floss will work . . .

73

Nils
 . . . had an interesting MFSK Q the other night with Don W1OER up in Waltham, MA. Interesting 'cause I figured out the "conversation" mode of that stuff. Certainly a lot easier than web time. Which reminds me: there's a site where you can check out the sounds of many different MT comm systems. Links to various other things, none of which point to the crypto pages listed above . . . 'nother strange coincidence . . .

Nils R. Bull Young -- El Gringo Errante -- La Estancia de los Guajolotes Sonrientes
http://www6.50megs.com/w8ijn -- W8IJN --
http://members.fortunecity.com/nilsbull
In my day you had to FIGHT to have digits! Every DAY was a STRUGGLE!
                          --- Comrade Nikolai Sergeevich McTovarishov

---

Date: Tue, 23 Jan 2001 06:46:52 -0800
From: David Shalita <davidr@cnmnetwork.com>
To: qrp-l_ham <qrp-l@Lehigh.EDU>
Subject: [89374] Help with Drake T4XB
Message-ID: <3A6D995C.B5BA4F51@cnmnetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am attempting to make operational my Drake T4XB and AC4 PS that have
been in storage for 20 years. Filaments do not light and AC4 PS seems
faulty despite good fuse. I cannot get the AC4 PS out of the MS4 speaker
cabinet and the RF Tuning control seems to slip at extreme ends.

I located one Drake Message Board where they discuss repairing Drake
gear.
 http://www.zerobeat.net/wwwboard/drake/

Is there any other groups on the net concerning reviving Drake gear?

Thank you for any hints.
73, W6MIK, Dave

Date: Tue, 23 Jan 2001 09:51:52 -0500 (EST)
From: "John L. Sielke" <w2agn@pobox.com>
To: Larry Spinner <n2icz@hotmail.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89375] Re: 30 meters Foxhunt ok?
Message-ID: <XFMail.010123095152.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

If I may point out a slight technicality. There is no RULE that contests are not
"allowed" on 30M or any WARC band for that matter. It is another "Gentleman's
Agreement." We had a WARC band "operating exercise" a few yaers ago, wherein
QRPers
tried to work as many states, countries, etc., on the various WARC bands. It was
sponsored by our own Chuck Adams K7QO (then K5FO). Had a catchy name, which I
forget.

Anyway, go for it!

John W2AGN

On 23-Jan-01 Larry Spinner wrote:
> Would a 30 meter Foxhunt be considered a contest? Or simply an on air
> "activity"? It might be worth exploring some sort of "net" with activity
> associated with it and just not call it a contest!
>
> N2ICZ
>
>
>> > You're absolutely correct. 30m is great!
>> >
>> > Only one "problem". Contest (including QRP contest) are not allowed
>> on 30m
>> > and this is why many QRPers stay on 40m.

Date: Tue, 23 Jan 2001 10:23:07 -0500
From: "Don Wilhelm" <w3fpr@arrl.net>
To: "Shelly Somerville" <somerville@uniserve.com>
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89376] Re: Feed Line question - This may be asking the obvious
Message-ID: <007801c08550$6b277600$64440f3f@dbw11main>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Shelly and all,

There are many sources, but the ARRL has several in their publications. The
Antenna Handbook has some coverage, Antenna Impedance Matching has more
specific info, Introduction to Radio Frequency Design includes the
MicroSmith software, and this is just a start. The WinSmith software is a
software Smith chart and ARRL also sells printed Smith Charts in 3
varieties - the basic (normalized to 1 ohm), normalized to 50 ohm, and an
expanded Smith Chart version.
Go to http://www.arrl.org/catalog/ and enter "smith chart" in the 'Product
Search' field.

73,
Don Wilhelm -Chapel Hill, NC   W3FPR home page:
http://www.w3fpr.webprovider.com
  QRP-L # 485   K2 SN 0020   mailto: w3fpr@arrl.net

----- Original Message -----
From: "Shelly Somerville" <somerville@uniserve.com>

> But where do you find out about Smith Charts? My copy of the Handbook glosses
> over the matter.
> Regards John/VE7CFG
>

Date: Tue, 23 Jan 2001 09:16:16 -0600
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'kc4atu@yahoo.com'" <kc4atu@yahoo.com>, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89377] RE: Corrosion/stranded wire
Message-ID: <E78D8A9D6762D411B5440008C791D4AA0130335C@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

Ah..... but you didn't specify all of this alleged "weather-proofing" of the connection points when using insulated wire, Bill. Regardless, there is absolutely NO way of sealing the ends of exposed wire (in an insulated wire situation), "good engineering practices" or not, which is used for an antenna with center and end insulators.

Water vapor (that's what's wicked into the spaces between the wire and the outer insulation jacket) is a lot more pervasive than you suspect, Bill.

There might be a possibility one could slow down the invasion of moisture into the conductor/jacket region by applying something like "Liquid Tape" or "Dipp-It" to the areas between exposed conductor and outer insulation jacket *right at the time the inner conductor is exposed to the world* and for additional insurance, add coax seal, plastic tape, et cetera, but eventually,
moisture is going to invade the jacket/copper molecular space and corrosion will appear.

Karl K - W8TIF
McKinney, Texas

> -----Original Message-----
> From: Bill ROWLETT [SMTP:kc4atu@yahoo.com]
> Sent: Monday, January 22, 2001 4:52 PM
> To: Low Power Amateur Radio Discussion
> Subject: Re:Corrosion/stranded wire
>
> Karl,
>
> What you say is true for any connection made to the
> insulated wire which is not weather proofed. Any time
> the insulation is removed for the purpose of making a
> connection, feed line or at the end insulator,
> good engineering practices call for weather proofing
> with heat shrink, coax-seal and a good grade of tape
> tightly wrapped on top. This not only keeps the
> moisture out but also will add strength to the
> connection.
>
> THIS WILL NOT LAST FOR EVER. Most of us, myself
> included, do not always maintain the wire antennas as
> they should be. The joints should be checked on at
> least a 12 month schedule for structural strength and
> all weather proofing should be replaced at that time.
> Feed lines need to be checked as well and coax should
> be replaced at least on a 5 yr schedule.
>
> There was a post on this last week from someone
> wanting scientific facts to prove that the insulated
> wire produced less static. This I do not have. These
> observations are from using both types of wire and
> finding that the insulated was quieter then the
> un-insulated. All of us have different hearing, so if
> it works for you, great, if not, that is ok too. It
> just proves the point that we are all different and
> what works for one may not work for another. Give it a
> try, at least wire is one of the cheaper parts of this
> hobby.
>
> 73, Bill
>

Date: Tue, 23 Jan 2001 09:26:54 -0600
From: "James Parsons" <res075cz@gte.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89378] Re: 30 meters
Message-ID: <004301c08550$eac60de0$7c640304@vz.dsl.genuity.net>

MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes, but 30 meters is getting crowded with Spanish speaking SSB stations.
They hang around the low end of the band where most of the CW stations are
located. They are very strong here in Texas.

Jim, K5ROV
James (Jim) Parsons, K5ROV,   CMSgt, USAF, Ret.,   Ham for 60 yrs.
k5rov@arrl.net,   QCWA, ARCI, Fists, ARRL, ARMS.
EX: W1RLA, K5FBB, K4FEO, SV0WN (CRETE), SV0WN (RHODES),
DL4NC, DL4JP, KA2FC (JAPAN), KA2JP (JAPAN).
JOHN 3:16

----- Original Message -----
From: "Trevor Jacobs" <fxtech@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, January 23, 2001 1:34 AM
Subject: 30 meters

> Hi Everyone,
>   I just have a quick question. Why are we killing ourselves on 40
meters
> with all of the BC when 30 Meters is wide open??? 30 meters seems to be
the
> natural band for QRP ops. Take care...
>
> 73
> Trev
> KG6CYN
>

Date: Tue, 23 Jan 2001 09:50:35 -0500
From: ed.kwik@delphiauto.com
To: qrp-l@Lehigh.EDU
Subject: [89379] Re: 30 meters Foxhunt ok?
Message-ID: <052569DD.0051D275.00@usabhmg99.mail.delphiauto.com>
Mime-Version: 1.0
Content-type: text/plain; charset=us-ascii
Content-Disposition: inline

Why not do something like a different band for each weekday night?
MON Cub Fox 40M
TUE Fox 20M
WED Fox 30M
THU Fox 40M
FRI Fox 80M

Ed AB8DF

Date: Tue, 23 Jan 2001 07:29:31 -0800
From: Phil Wheeler <w7ox@earthlink.net>
To: 70511.3041@compuserve.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89380] Re: Help--ARS Sojourner SST and NC-40a notes?
Message-ID: <3A6DA35B.6B61A263@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

May not be what you are looking for, Doc, but the "really big" set of
SST notes is at

http://www.g3ycc.karoo.net/sst1.html

Dunno abt the NC-40A notes.

Phil W7OX

"Wilford D. Lindsey" wrote:
>
> Gang:
>
> Anyone tell me exactly where to find the ARS Sojourner's notes on the
> Wilderness SST series of transceivers? Also interested in their NC-40a
> notes. Thanks.
>
> 72,
> --Doc/K0EVZ

Date: Tue, 23 Jan 2001 7:38:35 PST
From: Roger Traylor <traylor@ece.orst.edu>

To: qrp-l@lehigh.edu
Subject: [89381] Re: about tuner losses -- "can't be true"
Message-ID: <200101231538.HAA09836@tongu.ECE.ORST.EDU>

Tuner losses may be greater than you think.

Saturday I worked a portable station in Colorado
with my Sierra and a BLT in the line. After a
fine QSO with good reports both ways, I noticed
I was still in "TUNE" mode not "OPERATE". The
BLT soaks up 6db in its bridge resistors in this
mode. Ooops. I just had to laugh that one off.

Roger Traylor
WB4TPW

Date: Tue, 23 Jan 2001 15:39:32 +0000
From: Jack Bennett <J.Bennett@lboro.ac.uk>
To: qrp-l@lehigh.edu
Subject: [89382] 30 Metres
Message-ID: <3.0.6.32.20010123153932.007c1e90@staff-mailin.lboro.ac.uk>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Come on chaps, let's stick to the spirit of the agreement!

NO CONTESTS...NO CONTESTS...NO CONTESTS!!!

Foxhunts on 30 Metres would be the thin edge of the wedge. As is also SSB
on 30 metres. Having suffered on 40 Metres, don't you want to keep the WARC
bands free from contesting. What a blessing they are, especially at weekends!.

Think about it.

72,

Jack

G3PVG.

Date: Tue, 23 Jan 2001 08:46:24 -0700
From: "Rod Cerkoney" <n0rc@hotmail.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89383] 30m question & comments
Message-ID: <OE15WxT1OdpGOjXZ1ta00001297@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;   charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks,

Lots of 30m talk, good to hear. When are you all finding the band to
be most active? I've tried 30 several times after work around 2am &
don't hear a thing! Of course there isn't much to be heard on any band
at 2am! ;-)

Someone mentioned Fox hunts on 30. To me that seems in conflict with
the spirit of the "gentlemen's agreement" not to contest on the WARC
bands. It's the notion of a regularly scheduled event, competing for
QSOs, that to me is the infraction. No doubt if we did it, it wouldn't
be long before someone else tried something similar, and things might
get out of hand. Let's not open up a "can of worms" that will draw the
ire of others (Think about the difficulties on 80m when we started PSK
activity near 3580.)

WARC bands in general--be there! When I do get some op time (weekends
mainly) I've be sticky to 30, 17 and 12m 95% of the time. It's like
moving your household from a crowded city apartment, to a large
acreage in the country. ;-)

73, Rod N0RC
Ft Collins CO   WARCin' in the Fort!

Date: Tue, 23 Jan 2001 10:56:05 -0500
From: Rick Robinson <rerobins@email.uncc.edu>
To: qrp-l@lehigh.edu
Subject: [89384] WTB: DL QRP PA
Message-ID: <v03102801b693591acf69@[152.15.144.71]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

I'd like to buy either a built or unbuilt DL QRP PA kit. If built, I'd
prefer it to be in working condition.

I have one DL QRP PA running in one of my Sierras and would like one for my
second Sierra.

Thanks and 72,

Rick kf4ar

Date: Tue, 23 Jan 2001 11:20:20 -0500
From: "Ron McConnell" <rcmcc@lucent.com>
To: "'Gary-N3GO O'Neill'" <n3go@us.ibm.com>, "'QRP-L'" <qrp-l@lehigh.edu>,
<njqrp@njqrp.org>
Cc: "'X w2iol'" <w2iol@arrl.net>, "'George-VE3ERP Murphy'" <ve3erp@encode.com>
Subject: [89385] End-Fed Halfwave Antennas, Zepps, J-Poles -> HAMCALC
Message-ID: <003b01c08558$61dfd850$ee051187@amc.belllabs.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey, Gary!

The TRUTH IS [GETTING] OUT THERE!

If you haven't done so yet,
check out Steve Yates's (AA5TB) _nice_ web site
page on end-fed halfwave antennas

  http://www.geocities.com/aa5tb/efha.html

featuring and promoting
"The Revelations According to N3GO"
with a link to your Communications Quarterly article. :-)
I've been sending out notes to J-Pole/Zepp
inquiries on the lists and newsgroups
for the last couple of years.
They seem to be taking effect.

Steve, et al, in case you are not aware,
George (VE3ERP) Murphy has included Gary's
End-Fed Zepp/J-Pole design program in his HAMCALC
package of 250+ ham software programs.
It's Murph's version of my version of the
N3GO original. I added the option of using
a different t-line for the shorting stub
from the series section. Murph added nice
graphics and a better user interface.

I can send a copy of the Basic program to anyone
interested. (I don't think you mind, Murph.)

I _highly_ recommend that folks get the whole
HAMCALC CD-ROM from Murph (see the Cc: list)
at US$7.00 for S&H,
one of the best ham software deals around.

Cheers, 73,

Ron McConnell

w2iol@arrl.net

PS: Gary, did you get a chance to play
any more with the wet t-lines?

Date: Tue, 23 Jan 2001 08:44:39 -0800
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <w5yr@att.net>, <qrp-l@lehigh.edu>
Subject: [89386] Extended Double Zepp
Message-ID: <01c0855b$c7b4b1c0$330b0d0a@dhendricks>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

George, great info on the antenna. But what the world really wants to know
is did you use ribbon cable for feedline?? 72, Doug

Date: Tue, 23 Jan 2001 11:41:15 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: J.Bennett@lboro.ac.uk
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89387] Re: 30 Metres
Message-ID: <3A6DB42B.ED45102D@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Guys,

30 meters has always been held contest free, along with the other WARC

bands. We did have TMPS a couple of years ago, but its format was not like a fox hunt. The Thirty Meters Propagation Study just squeaked by under the gentlemen's agreement. It did not have fixed operating periods, rather it was a summer long activity period, that is why. I have no problems with running it again. The rules and such should be on the QRP-L website. I would not push our luck any further by trying to call a contest type activity like the fox-hunt an activity period. We are, after all, amateurs, let's behave like amateurs!

73

Date: Tue, 23 Jan 2001 11:39:56 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [89388] RE - 30 MTR FOX HUNT?
Message-ID: <20010123.115747.-326269.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

    OUR QRPL FOX HUNT "IS A CONTEST" HAS BEEN DECLARED SUCH... HAS TEAMS , WINNERS AND LOSERS... THAT'S A CONTEST...
    hounds are trying to outscore each other and fox are trying to be "top fox" by working the most stations.... that's "CONTESTING" ...
    THE FOX HUNT IS A CONTEST...
KE1LA JOEL
DISPLACED CAJUN LAD
IN MAINE...oo U'ALL

Date: Tue, 23 Jan 2001 11:55:31 -0500
From: hamjoel@juno.com
To: w6toy@erols.com, qrp-l@lehigh.edu
Subject: [89389] Re: about tuner losses
Message-ID: <20010123.115747.-326269.2.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

> Interesting
> so Hams, amateurs are not qualified to add a bit of friction...
> because they lack a college education
> are not ee's

aren't we all hams heah... so let's end the tuner discussion... the 'professional / hams' can write their peers and quit nit picking this to death
and the rest of us can move on to sumthin hams are qualified for...

On Tue, 23 Jan 2001 06:09:40 -0500 Bruce Muscolino <w6toy@erols.com> writes:
> Robert,
>
> Sure, there is a lot of friction out there, but the really important
> friction is between technically qualified people To say hams are qualified to join
> in
> the 'friction' between technical peers is just plain wrong! If you
> want
> to be an antenna engineer and break new ground, your local college
> will
> help you get the education!
>
> 73

KE1LA JOEL
DISPLACED CAJUN LAD
IN MAINE...oo U'ALL

Date: Tue, 23 Jan 2001 12:10:33 -0500
From: Rick Weber <weber@accenttech.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89390] QRP Ham Version of Junkyard Wars
Message-ID: <3A6DBAE6.5C9DB20B@accenttech.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1; x-mac-type="54455854"; x-mac-creator="4D4F5353"

Content-Transfer-Encoding: 8bit

Discussions on this QRP reflector about a ham version of the popular Junkyard Wars TV program intrigued me. This past weekend, I set up my own personal challenge to build a QRP CW transmitter for 80 meters that used only ONE commercial electronic component -- a vacuum tube -- and only NON-electronic junk commonly found around the house.

I started with a Hartley oscillator design in mind using one very old 27 tetrode vacuum tube made in the late 1920 s. No commercial resistors, capacitors, chokes, or variable tuners were used. Capacitors were made from Diet Coke cans and clear packing tape -- two .002 mF and one 250 pF. Made the 500 pF variable condenser from one diet coke telescoping over another one with packing tape insulation. RF choke is 160 turns of wire on a ball point pen body. The 10 KOhm grid resistor was made using the old science fair trick of a soft graphite pencil rubbed on cardboard. Two paper clips provided the resistor leads. Twelve turns of wire on a plastic pill bottle for the tank coil.

Swing link loosely coupled to the tank coil via an LDG QRP tuner/4:1 balun to a center-fed Zepp ant. Used the rcvr part of a Sierra as my receiver. Powered the xmtr with an old 1929 80-based power supply.

The crazy thing worked!

Had a QSO last night with Bob Howard K0RDF about 350 miles away. My RST -- 239. The best I could tell, this thing was putting a little over a Watt to the antenna. No noticeable drift, but, it tuned way too fast and chirped. Although I didn t check the signal with a spectrum analyzer, I couldn t hear any harmonics or spurious stuff when tuning the rcvr around the band. Here s a photo:

http://www.vintagehamradio.com/junkbox-xmtr

Here s the total parts list for the xmtr:

1 27 tetrode vacuum tube
5 Diet Coke cans (capacitors)
1 Plastic pill bottle (tank coil form)
2 Ballpoint pens (one for RF choke and one for tank coil form support)
1 Roll of packing tape (insulation for caps and general)
1 Roll of double sided tape (insulation for caps)
2 paper clips (resistor leads)
1 HB pencil lead (resistor)
Wire, epoxy, nails, cardboard, wood, solder

Tore it apart and am now rebuilding it with a fine tuner added and different tank coil.

Why use a vacuum tube instead of a transistor? I m an OT radio nut. (The best QRP radios glow in the dark!)

If I can get this xmtr perking well, and am still feeling masochistic, I may try a building a junkbox regen later.

Also dug out my good ol Gibson Girl generator (300 VDC at 40 mA) and am trying to figure out how to marry it to our exercise bike for a peddle powered xmtr. Peddle and pound brass at the same time?

Many of you QRP folks out there have a whole lot more ingenuity and skill than this old coot. Why not try your luck at building something similar -- maybe solid state -- and let us know how it worked.

Rick Weber
W9QZ

Date: Tue, 23 Jan 2001 10:20:45 -0700
From: "Francis Callahan" <colcal@srv.net>
To: <QRP-L@Lehigh.edu>
Subject: [89391] SWAP MFJ 9020
Message-ID: <000f01c08560$d31e3220$20df070c@callahan>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have for swap a MFJ 9020 transciever and MFJ 4114 recharable battery pack for a vibroplex single paddle keyer model 120 or will sell outright reply direct KF7ET Cal

---

Date: Tue, 23 Jan 2001 11:25:03 -0600
From: "George, W5YR" <w5yr@att.net>
To: hamjoel@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89392] Re: about tuner losses
Message-ID: <3A6DBE6F.6ABBFA87@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Well, I haven't read all the inputs to this thread, but from a professional electrical engineering background of several decades with several degrees from some pretty fancy schools I thoroughly enjoy seeing ANY technical discussion on this or any other reflector. Nothing could be better for the advancement of the ham radio hobby - other than more enthusiastic operating and less griping on the Net - than good clean objective technical discussion on public venues. And, that includes talking about tuners when a fellow ham asks for information.

I feel that ANY ham is qualified to ask a question or to venture an opinion, provided that it is stated as an opinion. I get a little irritated at some of the postings that are just plain wrong technically or borderline so, but that comes with the territory. I think that most attempts to "set things straight" subsequently are usually done objectively with the intention of correcting wrong information and seldom with any mean intent to embarrass or flame.

I think that most readers of this list, and most other lists, rather quickly "calibrate" the various posters and come to an understanding of who knows what they are talking about and who like to blow smoke to sound important.

Lord knows I hope that I get judged in the first group! I do try . . .
<:}

72/73, George   W5YR - the Yellow Rose of Texas   NETXQRP 6

Fairview, TX   30 mi NE Dallas in Collin county   QRP-L 1373
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

hamjoel@juno.com wrote:
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>   Interesting

> so Hams, amateurs are not qualified to add a bit of friction...
> because they lack a college education
> are not ee's
>
> aren't we all hams heah... so let's end the tuner discussion... the
> 'professional / hams' can write their peers and quit nit picking this to
> death
> and the rest of us can move on to sumthin hams are qualified for...
>
> On Tue, 23 Jan 2001 06:09:40 -0500 Bruce Muscolino <w6toy@erols.com>
> writes:
> > Robert,
> >
> > Sure, there is a lot of friction out there, but the really important
> > friction is between technically qualified people To say hams are
> qualified to join
> > in
> > the 'friction' between technical peers is just plain wrong! If you
> > want
> > to be an antenna engineer and break new ground, your local college
> > will
> > help you get the education!

Date: Tue, 23 Jan 2001 11:34:23 -0600
From: "George, W5YR" <w5yr@att.net>
To: Doug Hendricks <ki6ds@dph.dpol.net>
Cc: qrp-l@lehigh.edu
Subject: [89393] Re: Extended Double Zepp
Message-ID: <3A6DC09F.BA386B40@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Sure, Doug - that was a given!   <:}

Yep, I use "450-ohm" ladderline. Not that the length is critical, but it happens to be 40 feet. The sending end goes to a W2DU balun (beads on coax) and then through 13 ft of RG-213 coax through the attic into the shack to the MFJ 989C tuner. The antenna tunes perfectly with the 989 (good clean sharp tuning indications and zero reflected power) on all bands 80 through 10. I haven't tried 160 but that is unlikely nor have I tried 6 which probably will tune but be a doubtful radiator due to the number of lobes in the pattern.

On 20, the antenna gives major lobes off the side with 3 db gain over a corresponding dipole in the same location. There is some vertically

polarized radiation off the ends to fill in a bit.

I used this same antenna at 178 ft length as a 40 EDZ with great success
on 160-10. The only reason that came down was that it ran through a tree
top which eventually wore the insulation off the #14 house wire I used
and contact with the tree made for a wandering SWR situation that was
more annoying than important.

Thanks for the note and your interest, Doug.

72/73, George   W5YR - the Yellow Rose of Texas   NETXQRP 6

Fairview, TX   30 mi NE Dallas in Collin county   QRP-L 1373
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

Doug Hendricks wrote:
>
> George, great info on the antenna.   But what the world really wants to know
> is did you use ribbon cable for feedline?? 72, Doug

Date: Tue, 23 Jan 2001 10:44:52 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>, azqrp <azqrp@extremezone.com>
Subject: [89394] CONTEST: QRPDUPE Newest Version
Message-ID: <3A6DC314.36A0E6C9@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue:

   The latest version of QRPDUPE has been uploaded to my WWW site at:
http://www.dancris.com/~bkassel/index.htm#top

New Features in this release:

The main logging form is now automatically resized when the user
moves the mouse to change either the height or the width of the
window. All fonts, and controls in the window will automatically
be resized. The main window is the only one so far that has
received this new feature.

You will have to add the file Resize.VBX to your Windows/System folder.
The file is included in the QRPDUPE.ZIP file that is downloaded.

Added Contests:

  ARRL International DX (DX)
  ARRL International DX (W/VE)
  CQC Winter QRP QSO Party

There are now 22 contests, or contest situations, now included.

Brian K7RE

Date: Tue, 23 Jan 2001 09:50:35 -0800
From: Phil Wheeler <w7ox@earthlink.net>
To: w6toy@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89395] Re: 30 Metres
Message-ID: <3A6DC46B.8F91E5D1@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Bruce Muscolino wrote:
>
> Guys,
>
> 30 meters has always been held contest free, along with the other WARC
> bands. We did have TMPS a couple of years ago, but its format was not
> like a fox hunt. The Thirty Meters Propagation Study just squeaked by
> under the gentlemen's agreement. It did not have fixed operating
> periods, rather it was a summer long activity period, that is why. I
> have no problems with running it again. The rules and such should be on
> the QRP-L website. I would not push our luck any further by trying to
> call a contest type activity like the fox-hunt an activity period.

Agree!

> We are, after all, amateurs, let's behave like amateurs!
>

Indeed .. we should always be "amateurish" :-;

73, Phil W7OX

Date: Tue, 23 Jan 2001 11:51:47 -0600
From: "George, W5YR" <w5yr@att.net>
To: K4IA@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89396] Re: Feed Line question - This may be asking the obvious
Message-ID: <3A6DC4B3.402CBC78@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Buck was kidding and pulling our legs about the Smith Chart being over his head!
<:}

Before anyone gets squirmy over this Smith Chart business, let's look at a couple of fundamentals.

Almost any ham is familiar with the usual "graph" with a horizontal axis and a vertical axis, usually called X and Y respectively by the math types. We plot points on such graphs by finding the value for X or whatever that axis represents and going out that axis that distance. They we use the value for Y or whatever by going up at right angles from the X point to find the location for the final plotted X,Y point. NO sweat - NO problem.

Now, back before WWII, a pretty sharp engineer got tired of trying to plot resistance and reactance values for r-f things on those types of graphs, so he did some higher math on the problem and came up with a new set of mathematically derived axes, instead of the familiar X and Y axes. These new coordinate axes were no longer at right angles and they managed to somehow or other wrap around most all space to allow very, very large values to be plotted on the same graph as very small values. Since his name was Smith, guess what he named his new chart?

A Smith Chart is just another type of graph that lends itself not only to plotting the types of R and X values that we encounter in r-f work but also then allows the plotted points to be moved about to give us a better idea of what is happening in an r-f system when we make changes, etc.

Well, that is enough detail for this little intro.

The QST article that someone recommended is good, but - beware - it had some serious errors in it that were caught and corrected in a subsequent QST so check the annual index to find the corrections.

There are available several good "Smith Chart" programs that automate

the actual plotting on a piece of paper and greatly facilitate using the Chart. Better yet, there are transmission line analysis programs that avoid some Chart usage by just calculating directly the values that one formerly would do from the Chart.

But, in all defense, the Smith Chart is one of the very best ways to visualize and really begin to understand what is happening with a particular transmission line system. It is well worth the modest effort to get acquainted with it.

Why? Well, one of the most useful things you can do with it is to take the readings from your antenna analyzer made at the sending end of your transmission line and estimate the actual driving-point impedance of your antenna at the other end. That little exercise will show you why we say that an improperly terminated line is an impedance transformer.

Don't be afraid, guys - this isn't rocket science either . . .

72/73, George W5YR - the Yellow Rose of Texas NETXQRP 6

Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

K4IA@aol.com wrote:
>
> John
>
> There is a good two-part article on Smith Charts in the January and February
> 1966 QST. You can down load it from the ARRL website. Use the SEARCH SITE
> feature and you'll find lots of good tuff.
>
> Too bad it is all over my head. ;-)
>
> Radio K4IA
> Craig Buck
> Fredericksburg, Virginia USA
> QRP ARCI #2550 FISTS #6702 CC 788

Date: Tue, 23 Jan 2001 11:48:29 -0600
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'w7ox@earthlink.net'" <w7ox@earthlink.net>, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89397] RE: 30 Metres
Message-ID:

<E78D8A9D6762D411B5440008C791D4AA01303363@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

But I also believe that as "Amateurs", we should be as professional
as possible in everything we do!

Karl K - W8TIF
McKinney, Texas

> -----Original Message-----
> From: Phil Wheeler [SMTP:w7ox@earthlink.net]
> Sent: Tuesday, January 23, 2001 11:51 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: 30 Metres
>
>
>
> Bruce Muscolino wrote:
> >
> > Guys,
> >
> > 30 meters has always been held contest free, along with the other WARC
> > bands. We did have TMPS a couple of years ago, but its format was not
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> > periods, rather it was a summer long activity period, that is why. I
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> > the QRP-L website. I would not push our luck any further by trying to
> > call a contest type activity like the fox-hunt an activity period.
>
> Agree!
>
> > We are, after all, amateurs, let's behave like amateurs!
> >
>
> Indeed .. we should always be "amateurish" :-;
>
> 73, Phil W7OX

Date: Tue, 23 Jan 2001 12:58:13 -0500
From: Pete Burbank <plburbank@kih.net>
To: w6toy@erols.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89398] Re: "Subscribing" to the ARCI QRP Quarterly
Message-ID: <5.0.2.1.0.20010123125351.00a64af0@KIH.net>
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

At 06:44 AM 1/23/2001 -0500, Bruce Muscolino wrote:

>Larry,
>
>You only told half the story! PayPal requires an email address for the
>recipient of a payment. They will not accept QRP-ARCI. I used Craig
>Berhens address but there may be a better route. You should tell us!
>
>73
Dear Gang,
I just wasted 45 minutes of my life trying to subscribe to ARCI via paypal.
Guess I will just send a check.That only takes a minute.
73 to all
Pete NV4V

Date: Tue, 23 Jan 2001 12:59:47 -0500
From: "John P. Cummins, Sr." <jpcummins@gw.total-web.net>
To: plburbank@kih.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89399] Re: "Subscribing" to the ARCI QRP Quarterly
Message-ID: <3A6DC693.FE83CE44@gw.total-web.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

You can subscribe through the ARCI web page. The correct PayPal email
address is qrparci@netzero.net.

Pete Burbank wrote:
>
> At 06:44 AM 1/23/2001 -0500, Bruce Muscolino wrote:
>
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> >
> >You only told half the story! PayPal requires an email address for the
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> Pete NV4V

Date: Tue, 23 Jan 2001 13:23:38 -0500
From: Tom Isgro <k8cz@concentric.net>
To: plburbank@kih.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89400] Re: "Subscribing" to the ARCI QRP Quarterly
Message-ID: <3A6DCC2A.7109ADAA@concentric.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

It wasn't quite that bad. Pay Pal took my payment in less than 5
minutes.

Pete Burbank wrote:
>
>
> Dear Gang,
> I just wasted 45 minutes of my life trying to subscribe to ARCI via paypal.
> Guess I will just send a check.That only takes a minute.
> 73 to all
> Pete NV4V

--

"Blessed are they who can laugh at themselves for they shall never cease
to be amused."

72, 73 oo's
Tom K8CZ Hamilton, OH
FPqrp #--41, QRP-l 945, FISTS 2360, NORCAL 2113, ARCI 9606,
10-10 68364, SCI 1479, ARS 203, ARRL

Date: Tue, 23 Jan 2001 13:35:04 -0500
From: Pete Burbank <plburbank@kih.net>
To: hamjoel@juno.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89401] Re: RE - 30 MTR FOX HUNT?
Message-ID: <5.0.2.1.0.20010123132616.00a6ae20@KIH.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 11:39 AM 1/23/2001 -0500, hamjoel@juno.com wrote:
>   OUR QRPL FOX HUNT "IS A CONTEST" HAS BEEN DECLARED SUCH... HAS
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>   hounds are trying to outscore each other and fox are trying to be
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>fox" by working the most stations.... that's "CONTESTING" ...
>   THE FOX HUNT IS A CONTEST...
>KE1LA JOEL
>DISPLACED CAJUN LAD
>IN MAINE...oo U'ALL

I agree with Joel!
Also if you opened the door to a looser definition of contest, in short
order it
would invite disaster to this tiny band.....the last refuge for
non-contesters.
One mark of a QRP op is respect for the rest of the ham community and I
believe a 30 meter foxhunt would be disrespectful.
73 to all
Pete NV4V

Date: Tue, 23 Jan 2001 18:48:09 +0000
From: Brian Short <k7on@earthlink.net>
To: weber@accenttech.com, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89402] Re: QRP Ham Version of Junkyard Wars
Message-ID: <4.3.2.7.2.20010123184700.00c4aa40@mail.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

I *REALLY* enjoyed that picture! And...I made a few (artistic?) changes
to it. Please see them: http://home.earthlink.net/~k7on/junkyd.htm

Brian

At 05:10 PM 1/23/01, Rick Weber wrote:
>Discussions on this QRP reflector about a ham version of the popular
>Junkyard Wars TV program intrigued me. This past weekend, I set up my
>own personal challenge to build a QRP CW transmitter for 80 meters that
>used only ONE commercial electronic component -- a vacuum tube -- and
>only NON-electronic junk commonly found around the house.
>
>I started with a Hartley oscillator design in mind using one very old

> 27 tetrode vacuum tube made in the late 1920 s. No commercial
>resistors, capacitors, chokes, or variable tuners were used. Capacitors
>were made from Diet Coke cans and clear packing tape -- two .002 mF and
>one 250 pF. Made the 500 pF variable condenser from one diet coke
>telescoping over another one with packing tape insulation. RF choke is
>160 turns of wire on a ball point pen body. The 10 KOhm grid resistor
>was made using the old science fair trick of a soft graphite pencil
>rubbed on cardboard. Two paper clips provided the resistor leads. Twelve
>turns of wire on a plastic pill bottle for the tank coil.
>
>Swing link loosely coupled to the tank coil via an LDG QRP tuner/4:1
>balun to a center-fed Zepp ant. Used the rcvr part of a Sierra as my
>receiver. Powered the xmtr with an old 1929 80-based power supply.
>
>The crazy thing worked!
>
>Had a QSO last night with Bob Howard K0RDF about 350 miles away. My RST
>-- 239. The best I could tell, this thing was putting a little over a
>Watt to the antenna. No noticeable drift, but, it tuned way too fast and
>chirped. Although I didn t check the signal with a spectrum analyzer, I
>couldn t hear any harmonics or spurious stuff when tuning the rcvr
>around the band. Here s a photo:
>
>http://www.vintagehamradio.com/junkbox-xmtr
>
>Here s the total parts list for the xmtr:
>
>1 27 tetrode vacuum tube
>5 Diet Coke cans (capacitors)
>1 Plastic pill bottle (tank coil form)
>2 Ballpoint pens (one for RF choke and one for tank coil form support)
>1 Roll of packing tape (insulation for caps and general)
>1 Roll of double sided tape (insulation for caps)
>2 paper clips (resistor leads)
>1 HB pencil lead (resistor)
>Wire, epoxy, nails, cardboard, wood, solder
>
>Tore it apart and am now rebuilding it with a fine tuner added and
>different tank coil.
>
>Why use a vacuum tube instead of a transistor? I m an OT radio nut. (The
>best QRP radios glow in the dark!)
>
>If I can get this xmtr perking well, and am still feeling masochistic, I
>may try a building a junkbox regen later.
>
>Also dug out my good ol Gibson Girl generator (300 VDC at 40 mA) and am
>trying to figure out how to marry it to our exercise bike for a peddle

>powered xmtr. Peddle and pound brass at the same time?
>
>Many of you QRP folks out there have a whole lot more ingenuity and
>skill than this old coot. Why not try your luck at building something
>similar -- maybe solid state -- and let us know how it worked.
>
>Rick Weber
>W9QZ

--
It is not the strengths, but the durations of great sentiments
that make great men. -Nietzsche
--
mailto:k7on@earthlink.net
--

Date: Tue, 23 Jan 2001 14:05:48 -0500 (EST)
From: "John L. Sielke" <w2agn@pobox.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89403] RE: 30 Metres
Message-ID: <XFMail.010123140548.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

I heartily agree! There has been entirely too much emphasis on "fun" and
"enjoyment"
on this QRP reflector. As a retiree, I miss my daily quotient of rules and stern
admonishments. Let's cut out the jocularity, limit QSOs to the appropriate
exchange
of RST, QTH and name, and have no more talk of using the WARC bands for anything
that might be "fun." One shudders at the thought.

John W2AGN

On 23-Jan-01 Kanalz, Karl wrote:
> But I also believe that as "Amateurs", we should be as professional
> as possible in everything we do!
>
> Karl K - W8TIF
> McKinney, Texas

Date: Tue, 23 Jan 2001 13:09:03 -0600
From: "James Parsons" <res075cz@gte.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89404] Re: 30 Metres
Message-ID: <012b01c0856f$f381ad80$7c640304@vz.dsl.genuity.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The trouble is, what is fun for you might not be fun for others. Like
contests, for example.

----- Original Message -----
From: "John L. Sielke" <w2agn@pobox.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, January 23, 2001 13:05 PM
Subject: RE: 30 Metres

> I heartily agree! There has been entirely too much emphasis on "fun" and
"enjoyment"
> on this QRP reflector. As a retiree, I miss my daily quotient of rules and
stern
> admonishments. Let's cut out the jocularity, limit QSOs to the appropriate
exchange
> of RST, QTH and name, and have no more talk of using the WARC bands for
anything
> that might be "fun." One shudders at the thought.
>
> John W2AGN
>
>
> On 23-Jan-01 Kanalz, Karl wrote:
> > But I also believe that as "Amateurs", we should be as professional
> > as possible in everything we do!
> >
> > Karl K - W8TIF
> > McKinney, Texas

Date: Tue, 23 Jan 2001 14:10:52 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: hamjoel@juno.com
Cc: qrp-l@lehigh.edu
Subject: [89405] Re: about tuner losses

Message-ID: <3A6DD73C.E74C5B22@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joel,

That is not what I said, I think. It certainly is not what I meant.
Through the years hams have made many well recognized additions to the
body of theory we call radio. In fact they have contributed to the body
of work we call science! But, they were almost always working from
sound technical principles. Even when the principles were poorly
understood, the contributors went to the effort of having the
contributions vetted by peer review. All I think I was saying was if
you can't find some real scientific agreement you may be blowing smoke!
There is a difference between reporting that something works and adding
the phenomena to the body of science! None of this takes a college
degree, it just takes some careful reading and asking questions of the
technically qualified once in a while!

73

Date: Tue, 23 Jan 2001 14:20:03 -0500
From: Harris Keith E CONT CNIN <harris_k@crane.navy.mil>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [89406] Re: 30 Meters
Message-ID:
<4F76B3D4A76AD111803B00A0C9893D9C06ED8CCB@cninexchsrv05.crane.navy.mil>
MIME-Version: 1.0
Content-Type: text/plain

Okay, lets not get into a long winded discussion of what is or isn't "fun".
If you want contests, there seem to be enough of them to go around
elsewhere. It's nice to have somewhere that just making a contact is
enough. Does everything have to be a contest that has a winner and a loser.
Take a chill pill and relax. Try to see the humor in life (and these posts)
and quit bucking for an ulcer. Just my 2 krus.

oo de N9KH

Date: Tue, 23 Jan 2001 14:16:25 -0500
From: Bruce Muscolino <w6toy@erols.com>
To: w7ox@earthlink.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>

Subject: [89407] Re: 30 Metres
Message-ID: <3A6DD889.FEB7A49B@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Phil,

Behaving like true amateurs implies many things. It is not a put down to be called a radio amateur. However, if we persist in trying to spread some of our ideas about what and where we can go with our QRP signals we will endanger ourselves with FCC enforcement! This morning alone I saw several postings about having a fox hunt on 30 meters in obvious violation of the gentlemen's agreement that gave us the band in the first place!

I also saw a posting about Mexican/South American fishing boats using the bottom end of the band. Clearly the poster was not aware that the band is a shared assignment. Maybe the operations are legal!

73

Date: Tue, 23 Jan 2001 14:31:48 -0500
From: "Richard Brummer, K2JQ" <k2jq@bestweb.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89408] Re: 30 Metres
Message-ID: <00b901c08573$21dae220$e705b3d8@obvious>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>The trouble is, what is fun for you might not be fun for others. Like
>contests, for example.

You OBVIOUSLY have not met John, and do not appreciate his sense of humor.....

This thread is getting interesting.....

73,
Dick K2JQ

Date: Tue, 23 Jan 2001 14:44:09 -0500
From: "John Harper" <ae5x@qsl.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [89409] Dec CQ Magazine anyone?
Message-ID: <008f01c08574$da9b8660$5b7abc18@johnharp>
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Could someone that has this issue please email me the formula for
determining the length of the 160m coaxial inverted L? I also need the
formula to find the length of the wire section at the end of the coaxial
part. I "loaned" my issue before copying this info out of it.

Thanks and 72,

John Harper AE5X
Outdoor QRP & Lowband DXing: http://www.qsl.net/ae5x

Date: Tue, 23 Jan 2001 11:41:10 -0800
From: Bob Nielsen <nielsen@oz.net>
To: qrp-l@lehigh.edu
Subject: [89410] Re: 30 Metres
Message-ID: <20010123114110.A1238@oz.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Disposition: inline

By all means:

  Amateur, n. [F., fr. L. amator lover, fr. amare to love.]
     A person attached to a particular pursuit, study, or science
     as to music or painting; esp. one who cultivates any study or
     art, from taste or attachment, without pursuing it
     professionally.

Bob, N7XY

On Tue, Jan 23, 2001 at 09:50:35AM -0800, Phil Wheeler wrote:
>
>
> Bruce Muscolino wrote:
> >
> > Guys,
> >
> > 30 meters has always been held contest free, along with the other WARC
> > bands. We did have TMPS a couple of years ago, but its format was not
> > like a fox hunt. The Thirty Meters Propagation Study just squeaked by
> > under the gentlemen's agreement. It did not have fixed operating
> > periods, rather it was a summer long activity period, that is why. I
> > have no problems with running it again. The rules and such should be on
> > the QRP-L website. I would not push our luck any further by trying to
> > call a contest type activity like the fox-hunt an activity period.
>
> Agree!
>
> > We are, after all, amateurs, let's behave like amateurs!
> >
>
> Indeed .. we should always be "amateurish" :-;
>
> 73, Phil W7OX

--
Bob Nielsen, N7XY   nielsen@oz.net
Bainbridge Island, WA   http://www.oz.net/~nielsen

Date: Tue, 23 Jan 2001 14:50:12 -0500
From: "John Harper" <ae5x@qsl.net>
To: <g3cwi@qsl.net>
Cc: "QRP-L" <qrp-l@lehigh.edu>
Subject: [89411] G3CWI - excellent web site
Message-ID: <009501c08575$b31c0640$5b7abc18@johnharp>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Awesome page Richard! (http://www.qsl.net/g3cwi/themint.html) I can't wait
to read about the Mint Box Challenge in more detail.
72,

John Harper AE5X
Outdoor QRP & Lowband DXing: http://www.qsl.net/ae5x

Date: Tue, 23 Jan 2001 13:55:11 -0600
From: Richard Matthews <prm@hiwaay.net>
To: nielsen@oz.net, qrp-l@lehigh.edu
Subject: [89412] Re: 30 Metres
Message-ID: <3.0.1.32.20010123135511.00cbd8c0@hiwaay.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:41 1/23/01 -0800, you wrote:
>By all means:
>
> Amateur, n. [F., fr. L. amator lover, fr. amare to love.]
>   A person attached to a particular pursuit, study, or science
>   as to music or painting; esp. one who cultivates any study or
>   art, from taste or attachment, without pursuing it
>   professionally.
>
>Bob, N7XY
....

ham n.

The thigh of the hind leg of certain animals, especially a hog.
A cut of meat from the thigh of a hog.
The back of the knee.
The back of the thigh.
hams. The buttocks.
An actor who overacts or a performer who exaggerates.
A licensed amateur radio operator.

Richard WA4NWW

Date: Tue, 23 Jan 2001 13:25:47 -0700
From: "Rod Cerkoney" <n0rc@hotmail.com>
To: "Flying Pigs" <fpqrp-l@mpna.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89413] From CNN, Radio is officially 100 years old!

Message-ID: <OE59iu3fQtYdVzDpubx000022b0@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;   charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Details at:

http://www.cnn.com/2001/TECH/computing/01/23/marconi.01/index.html

Radio passes 100-year milestone

Marconi's transmission was a milestone in
long-distance communication
January 23, 2001
Web posted at: 11:24 AM EST (1624 GMT)

73, Rod N0RC
Ft Collins CO

Date: Tue, 23 Jan 2001 14:27:54 -0800
From: "Jim Crooke" <crooke@prodigy.net>
To: <prm@hiwaay.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89414] Re: 30 Metres
Message-ID: <02c201c0858b$bc37dd60$0101a8c0@workstation1>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

From: Richard Matthews <prm@hiwaay.net>
>
> ham n.
>
> The thigh of the hind leg of certain animals, especially a hog.
> A cut of meat from the thigh of a hog.
> The back of the knee.
> The back of the thigh.
> hams. The buttocks.
> An actor who overacts or a performer who exaggerates.
> A licensed amateur radio operator.
>
>
> Richard WA4NWW

I've been called the last three definitions, sometimes at one time :-)

72 es oo's Jim KJ0C
Healer of Brachycephalics and other fine looking creatures in Springfield,
MO
QRP-L # 2100, SOC # 37, #-108 and semi-official vet of the Flying Pigs
QRP, member of the Night Owl Fox Hunters

Date: Tue, 23 Jan 2001 15:28:41 -0500 (EST)
From: "John L. Sielke" <w2agn@pobox.com>
To: Richard Matthews <prm@hiwaay.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89415] Re: 30 Metres
Message-ID: <XFMail.010123152841.w2agn@pobox.com>
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Oh goody, I can play that, too:

anal-retentive adj. Designating personality traits such as
meticulousness, avarice and obstinacy, originating in habits, attitudes or values
associated with infantile pleasure and retention of feces.

John W2AGN
On 23-Jan-01 Richard Matthews wrote:
> At 11:41 1/23/01 -0800, you wrote:
>>By all means:
>>
>> Amateur, n. [F., fr. L. amator lover, fr. amare to love.]
>>   A person attached to a particular pursuit, study, or science
>>   as to music or painting; esp. one who cultivates any study or
>>   art, from taste or attachment, without pursuing it
>>   professionally.
>>
>>Bob, N7XY
> ....
>
> ham n.
>
> The thigh of the hind leg of certain animals, especially a hog.
> A cut of meat from the thigh of a hog.
> The back of the knee.

> The back of the thigh.
> hams. The buttocks.
> An actor who overacts or a performer who exaggerates.
> A licensed amateur radio operator.
>
>
> Richard WA4NWW
>
>
>

Date: Tue, 23 Jan 2001 15:43:36 EST
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu, fox_tango@qth.net, yaesu@qth.net
Subject: [89416] Dummy load for the 901 DM
Message-ID: <51.67a1d4a.279f46f8@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,'
I'm looking for the matching dummy load for the FT 901 DM and also the
matching remote VFO.
Please E mail off the list.
Thanks
Bob
WA2HOQrp <tm>

Date: Tue, 23 Jan 2001 15:50:53 EST
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [89417] resistor question
Message-ID: <21.6780b92.279f48ad@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,
Just wanted to know if the non inductor type of resistors can be used for
making a small dummy load..
Someone told me that they are using the metal oxide type.
I was told to avoid this type because of the groves in them they can act like
an inductor.
What about the wire wound type.???

Any suggestions greatly appreciated.
Thanks
Bob
WA2HOQrp <tm>

Date: Tue, 23 Jan 2001 15:56:33 -0500
From: "Joe Trombino" <w2kj@earthlink.net>
To: <QRP-L@LEHIGH.EDU>
Subject: [89418] ARRL HB one more time
Message-ID: <012301c0857e$f8b8ad80$6153fc9e@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Fellow QRP'ers:

Would like to try again to recruit someone who is going to
buy a 2001 ARRL handbook at Barnes and Nobles ($8) to try
and pick one up for me. I will include postage fees and
funds for at least one cup of capuccino.

Local B&N store doesn't have the HB and there are no other
B&N sources nearby. Would greatly appreciate any help that
could be rendered.

                                73, Joe W2KJ (North
Carolina)

Date: Tue, 23 Jan 2001 15:59:38 EST
From: Shephed@aol.com
To: <qrp-l@lehigh.edu>
Subject: [89419] Re: 30 Metres
Message-ID: <d3.f88424e.279f4abb@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

and meanwhile over on fpqrp-l, we are talking about nets, the MP-20 project, our
new tee shirts, and our 200th member.

:-D

72, oo
Dan, N8IE
FPqrp #-6

Date: Tue, 23 Jan 2001 13:07:01 -0800 (PST)
From: Jeff <fantbb@yahoo.com>
To: qrp qrp <qrp-l@lehigh.edu>
Subject: [89420] Re: "Subscribing" to the ARCI QRP Quarterly
Message-ID: <20010123210701.52660.qmail@web10008.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

--- Pete Burbank <plburbank@kih.net> wrote:

> I just wasted 45 minutes of my life trying to subscribe to ARCI via
> paypal.
> Guess I will just send a check.That only takes a minute.

The paypal button wasn't working when I tried it. I emailed ARCI asking for a email address so I could have paypal send the money there. Jim at ARCI emailed me back and said they had fixed the problem with the Paypal button. Evidently Paypal had changed something on them that caused the button not to work. After he fixed it the Paypal button worked just fine. However I did have a problem earlier just getting Paypal work. It would sit there and time out on me. Makes me wonder if that was Pete's problem.

73!

Jeff

=====
AB6MB
Stop censorship on mailing lists!
NorCal QRP Club #65, QRP-L #1780, ARCI 10071
Radical FIST Member 6798

Date: Tue, 23 Jan 2001 13:18:38 -0800
From: "John Moriarity" <k6qq@hdo.net>
To: <aa4lr@arrl.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89421] Re: about tuner losses
Message-ID: <007401c08582$0e664540$f5414cd1@johnmori>

> >For 1 kW, the
> >dissipation becomes 110 W -- signifcant power.
>
> Which would certainly require ventilation holes. Gee, my 2kW Murch
tuner
> doesn't have any. Perhaps tuner losses aren't nearly as great as you
> think.

My old Johnson kW Matchbox had ventilation holes!

73,

John, K6QQ
Alturas, CA, at the corner of 299 & 395.

Date: Tue, 23 Jan 2001 08:49:47 -0500
From: Shelly Somerville <somerville@uniserve.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [89422] Winding Toroids
Message-ID: <3A6D8BFB.EA2055C7@uniserve.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My NorCal 40A is unstable when the AF gain is low and I have not found
any poor connections nor faulty components. However, I have noticed
that the toroids could have been wound just a little bit tighter.
Comments?

73 John/VE7CFG

Date: Tue, 23 Jan 2001 16:20:52 -0500
From: "Don Wilhelm" <w3fpr@arrl.net>
To: <RangerSF5@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: [89423] Re: resistor question
Message-ID: <004c01c08582$85e390a0$b7b8183f@dbw11main>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Bob and all,
I used 6 - 300 ohm 3 watt metal oxide resistors for an 18 watt dummy load - could be more if it is cooled.

When I measured it with my MFJ 259 it showed the following results:
1.5 MHz - 50 ohms resistive, 0 ohms reactance, SWR= 1.0
10 MHz - 52 ohms resistance, 0 ohms reactance, SWR= 1.0
18 MHz - 53 ohms resistance, 0 ohms reactance, SWR= 1.0
30 MHz - 57 ohms resistance, 3 ohms reactance, SWR= 1.1

The resistors were mounted on PC board material about 2 1/2 inches square - a coax connector was mounted in the middle and the resistors arranged in a circle like the spokes of a wheel. The copper foil on the PC board is used as a ground plane. I am guessing that even if the resistors are slightly inductive putting them flat against the ground plane helped to cancel the inductive effects.

The circle technique is similar to that used for an attenuator designed by Zack Lau and shown in QST January 1995 page 38. Zack recently stated in a post to QRP-L that the return loss for that attenuator was 30 dB or more up to 50 MHz as I recall - my memory may be a bit fuzzy on the precise numbers the frequency may have been higher - but I certainly concluded that the numbers were great for most ham uses.

Wirewound types are reported to be highly inductive - they make good loads for DC supplies and audio frequencies, but not good for RF.

73,
Don Wilhelm -Chapel Hill, NC W3FPR home page:
http://www.w3fpr.webprovider.com
  QRP-L # 485 K2 SN 0020 mailto: w3fpr@arrl.net

----- Original Message -----
From: <RangerSF5@aol.com>
> Hi Gang,
> Just wanted to know if the non inductor type of resistors can be used for
> making a small dummy load..
> Someone told me that they are using the metal oxide type.
> I was told to avoid this type because of the groves in them they can act

like
> an inductor.
> What about the wire wound type.???
>

Date: Tue, 23 Jan 2001 13:30:25 -0800
From: "John Moriarity" <k6qq@hdo.net>
To: <w2agn@pobox.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89424] Re: 30 Metres
Message-ID: <00aa01c08583$b3deb1a0$f5414cd1@johnmori>

> I heartily agree! There has been entirely too much emphasis on "fun"
and "enjoyment"
> on this QRP reflector. As a retiree, I miss my daily quotient of rules
and stern
> admonishments.

Aren't you married?? ;-)

73,

John, K6QQ

Date: Tue, 23 Jan 2001 16:31:27 -0500
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89425] RE: about tuner losses
Message-ID: <GAECLOGOMILPLBGKKPEGOEIKCCAA.crmabbott@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

1KW!!! is this California QRP? Did I miss that meeting
or what.....
73 ES oo
Chuck AA8VS

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of John Moriarity
Sent: Tuesday, January 23, 2001 4:19 PM
To: Low Power Amateur Radio Discussion
Subject: Re: about tuner losses

"For 1 kW, the
dissipation becomes 110 W -- signifcant power."

Date: Tue, 23 Jan 2001 13:32:37 -0800 (PST)
From: agtaylor@llnl.gov
To: qrp-l@lehigh.edu
Subject: [89426] NC40A repackaging
Message-ID: <200101232132.NAA18936@poptop.llnl.gov>
MIME-Version: 1.0
Content-Type: TEXT/plain; CHARSET=US-ASCII

I think the NC40A design is just about optimal for backpacking QRP work. As presented by Wilderness Radio, it is a fairly straightforward project to build as well. Unfortunately, it is just a bit big/bulky when one gets down to serious pack stuffing. The SST is enough smaller that the repackaging of a NC40A design via any means into its size (SST) would be a very nice thing to do. The issue here is ultimately just the volume taken up in a pack by the radio itself. Any reasonable packing of the design would end up with about the same weight of functional electronics.

If I were repackaging it, the first thing to be left out is RIT. Next would be the RF attenuator pot (replace with a spdt-center off switch and some resistors). I would keep the QSK antenna switching. Also would keep the AGC rather than going to the SST 'AGC'. I would also keep the double ended output (balanced) from the detector to the audio amp stages, otherwise the overall gain drops just a bit too much. The SSTs I have tried and used just seemed to be a bit low on overall gain and I found myself at full gain straining to sort out very weak signals in the mud. I would also keep the NC40As TX driver chain rather than replacing it with the video amp as done in the SST. Less exotic silicon is always better. Replace the TX drive pot with a switch and resistors. Preset HI and LO power available to the outside is better than a screwdriver pot inside. Keep some sort of keyer with potentiometer speed control but skip the counter

portion of the KC1...simpler to have a few key spots noted on a
1-turn pots knob rim The Tick series of keyers are very convenient, \
but I really miss changing speed instantaneously. I will, of course,
build it Trail-Friendly style, at least as interpreted by me!

OK, where is this guy going anyway? Well, after I make up the IA10
in Manhattan style construction and some other similar project in
traditional dead bug/ugly style, I would like to attempt a build of
the NC40A circuit in a very small volume. If anyone has attempted to
do this (or even thought about it a bunch), please contact me
privately. Please don't send emails attempting to discourage me. I am
prone to that enough as it is...I tend to operate much more than
build! I really doubt if I would be breaking new ground here, so please
drop me a note with your experiences for me to benefit from.

73 Allan   K7GT / AE6TT
Pleasanton CA

--

Allan G Taylor

agtaylor@llnl.gov

Date: Tue, 23 Jan 2001 15:41:15 -0600
From: "Steve Jacobs" <sjacobs@isd.net>
To: <qrp-l@Lehigh.edu>
Subject: [89427] Need help with torodial core
Message-ID: <003401c08585$380e9c00$030aa8c0@internal>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings All:

I need a bit of info on some old torodial cores that I bought at a hamfest.
They are marked CF123 - Q1. When I went searching for a plan to make a 4:1
Balun, I found one in a 1968 ARRL handbook which just happens to use a CF123
with Q2 material. I believe that Q1 material has a permeability of 125 and
Q2 has a permeability of 40.

My questions are:

1) Is Q1 material suitable for a 80-10 Meter Balun?

2) If the original plan calls for 10 bifilar turns wound around a core of Q2 material, would a core of the same dimensions made from Q1 material need 3 times fewer turns due to it's 3X higher permeability?
3) How much inductance is needed in a 4:1 voltage Balun?

I know that they don't cost much new, but I am trying to learn more about how these pesky critters work. :-)

Thanks in advance,
Steve, N0XC
Minnesota QRP Society

Date: Tue, 23 Jan 2001 13:37:17 -0800
From: "blinn" <blinn@smgazette.com>
To: <RangerSF5@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89428] Re: resistor question
Message-ID: <026501c08584$aa5a5d40$78b8e5d8@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi... I was always under the impression that wire wound resistors were nix due to the inductive reactance from the coil of resistive wire on the form... Too bad. If you would like to see a small dummy load I made years ago from two 22 ohm resisters in series and mounted in a PL 259 coax connector. Follow this link. http://bill_linn.tripod.com/dummyload.jpg

One of the resistors is hidden inside the connector.

Bill - WA7TQK

--

Date: Tue, 23 Jan 2001 16:43:31 -0500
From: "ZOOM" <kandrparker@sympatico.ca>
To: <RangerSF5@aol.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89429] Re: resistor question
Message-ID: <007b01c08585$87ed6300$39cdfea9@einstein>
MIME-Version: 1.0
Content-Type: text/plain;

charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wire wound also will act as an inductance. Get carbon resistors and if you get enough you can make a pretty large dummyload. 6 X 300ohms. For higher power add a fan or dunk them in transformer oil like a cantenna.

Cheers,
Robert
VE3RPF

----- Original Message -----
From: <RangerSF5@aol.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Tuesday, January 23, 2001 3:50 PM
Subject: resistor question

> Hi Gang,
> Just wanted to know if the non inductor type of resistors can be used for
> making a small dummy load..
> Someone told me that they are using the metal oxide type.
> I was told to avoid this type because of the groves in them they can act
like
> an inductor.
> What about the wire wound type.???
> Any suggestions greatly appreciated.
> Thanks
> Bob
> WA2HOQrp <tm>
>

Date: Tue, 23 Jan 2001 16:39:20 -0500
From: Bill Coleman <aa4lr@arrl.net>
To: <crmabbott@mediaone.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89430] RE: about tuner losses
Message-ID: <200101232139.QAA14919@mail3.atl.bellsouth.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"

On 1/23/01 16:31, Charles Mabbott at crmabbott@mediaone.net wrote:

>1KW!!! is this California QRP? Did I miss that meeting
>or what.....

HI HI....

Not at all. The point is that tuner inefficiency may go unnoticed at QRP levels, it certainly becomes a problem at QRO levels.

In many ways, a QRO tuner is likely to be a lot more efficient than a QRP-only unit. That's part of the reason I use a Murch 2kW tuner, even though I never even get to 100 watts.

Bill Coleman, AA4LR, PP-ASEL Mail: aa4lr@arrl.net
Quote: "Not within a thousand years will man ever fly!"
-- Wilbur Wright, 1901

Date: Tue, 23 Jan 2001 13:54:53 -0800
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <agtaylor@llnl.gov>, <qrp-l@lehigh.edu>
Subject: [89431] Repackaging the NC40A
Message-ID: <01c08587$1e0b2560$330b0d0a@dhendricks>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Allan, I have thought for years that the NC40A would be an ideal candidate to convert to surface mount parts. Why not see if you can find a friend on the list who knows how to lay out boards with surface mount parts? Work with him and see what you can come up with. I bet 95% of the parts would be available in surface mount. I would suggest that you use 1206 sized parts. A couple of guys that I have talked with about this suggest that it would be a board about the size of a credit card, especially if you put parts on both sides of the board. The rig should literally fit in your shirt pocket and be ideal for backpacking. I would use a through hole part for the final, as it would be easier to heatsink. I think that all of the IC's that the NC40A uses are available in SOIC, in fact, the 602's are only available in that package that I know of now.

So, how about it gang? Steve Weber knows a lot about laying out surface mount rigs, are there others of you out there? If so, get in touch with Allan and keep us informed as to your progress. 72, Doug, KI6DS

Date: Tue, 23 Jan 2001 16:55:30 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89432] Re: resistor question
Message-ID: <002f01c08587$384ca480$0600a8c0@dad>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> Wire wound also will act as an inductance.

Yes, we all take this as fact.

But also as fact is that ANY piece of wire has inductance.

The real issue is when does the inductance become
significant to affect what you're using trying to use the
resistor for.

At Ghz and up, even straight lead carbon resistors have
too much inductance. But come down in frequency...

So... Has anyone ever tried running different wirewound
'types' of resistors and SEEING just HOW they behave
when plotted in the frequency domain?

I'm sure there's LOTs of stuff you can do at 160m that
wouldn't stand a chance at 2M. And as HAMs we tend
to 'lump' things, specifically into an 'under 30Mhz' class.
But it might be interesting to see the results if someone
actually tested this.

Mike

Date: Tue, 23 Jan 2001 21:58:39 -0800
From: KB7WW Art Moe <kb7ww@chatusa.com>
To: ki6ds@dph.dpol.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89433] Re: Repackaging the NC40A

Message-ID: <3A6E6F0F.F9EF1B12@chatusa.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Are you talking about the size of our favorite "TIN". Altoid of course.

Art
KB7WW

Doug Hendricks wrote:
>
> Allan, I have thought for years that the NC40A would be an ideal candidate
> to convert to surface mount parts. Why not see if you can find a friend on
> the list who knows how to lay out boards with surface mount parts? Work
> with him and see what you can come up with. I bet 95% of the parts would be
> available in surface mount. I would suggest that you use 1206 sized parts.
> A couple of guys that I have talked with about this suggest that it would be
> a board about the size of a credit card, especially if you put parts on both
> sides of the board. The rig should literally fit in your shirt pocket and
> be ideal for backpacking. I would use a through hole part for the final, as
> it would be easier to heatsink. I think that all of the IC's that the NC40A
> uses are available in SOIC, in fact, the 602's are only available in that
> package that I know of now.
>
> So, how about it gang? Steve Weber knows a lot about laying out surface
> mount rigs, are there others of you out there? If so, get in touch with
> Allan and keep us informed as to your progress. 72, Doug, KI6DS

Date: Tue, 23 Jan 2001 17:06:42 EST
From: KaeseWoche@aol.com
To: qrp-l@lehigh.edu
Subject: [89434] Re: Fox: No joy in Nebraska!
Message-ID: <a6.f00f34d.279f5a72@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I was listening (in Dallas, Texas) at the same time, 0330Z, and had the same
experience as Tom: lots of BC QRM, no fox heard. Oh well, try try again!

(By the way: hi, Tom! He was one of my first QRP contacts after getting back
on the air last August!)

Bruce N4JIU

Date: Tue, 23 Jan 2001 17:14:00 -0500
From: "ZOOM" <kandrparker@sympatico.ca>
To: <myetsko@insydesw.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89435] Re: resistor question
Message-ID: <00a701c08589$ca341ac0$39cdfea9@einstein>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Yes test it for yourself ! That's how you will learn that wirewound do not make great resistors for a dummy load. If you can live with the varied Impedance it presents at different frequencies than by all means. Don't forget the capacitance between the windings. Now you have a complex unknown impeadance to deal with but by all means try it out!
The traditional approach is to use carbon resistors!

Robert
VE3RPF

----- Original Message -----
From: Mike Yetsko <myetsko@insydesw.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Sent: Tuesday, January 23, 2001 4:55 PM
Subject: Re: resistor question

> > Wire wound also will act as an inductance.
>
> Yes, we all take this as fact.
>
> But also as fact is that ANY piece of wire has inductance.
>
> The real issue is when does the inductance become
> significant to affect what you're using trying to use the
> resistor for.
>
> At Ghz and up, even straight lead carbon resistors have
> too much inductance. But come down in frequency...
>
> So... Has anyone ever tried running different wirewound
> 'types' of resistors and SEEING just HOW they behave
> when plotted in the frequency domain?

>
> I'm sure there's LOTs of stuff you can do at 160m that
> wouldn't stand a chance at 2M. And as HAMs we tend
> to 'lump' things, specifically into an 'under 30Mhz' class.
> But it might be interesting to see the results if someone
> actually tested this.
>
> Mike
>
>
>
>
>

Date: Tue, 23 Jan 2001 17:46:55 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-l@Lehigh.EDU>
Subject: [89436] BRAVO on the new QQ
Message-ID: <029c01c0858e$6380a780$a3384d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My hat is off to our new editor Craig Behrens NM4T who is responsible for
the new look in QQ. Color, quality printing and a printer who is timely.
It sure looks like our printer problems of the past are over. My
compliments!

Mike Branca W3IRZ in Conyers Georgia

Date: Tue, 23 Jan 2001 17:52:00 -0500
From: "Gary Oneil" <n3go@us.ibm.com>
To: <rcmcc@lucent.com>
Cc: "'QRP-L'" <qrp-l@lehigh.edu>, <njqrp@njqrp.org>, "'X w2iol'" <w2iol@arrl.net>,
"'George-VE3ERP Murphy'" <ve3erp@encode.com>
Subject: [89437] Re: End-Fed Halfwave Antennas, Zepps, J-Poles -> HAMCALC
Message-ID: <OF0DC954DD.22660597-ON852569DD.007ACFA6@raleigh.ibm.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Hi Ron;

Thanks for the update.

I checked out Steve's website. Looks like a good collection of everything you want to know about Zepps (Antennas and Airships) and J-poles (just the antennas). :-) You must be doing a great job. My paper is fast becoming a "classic" reference work. :-)

I haven't done much with wet transmission lines, but I sure know where I can boil off some free time when I can find it. :-) I did do a minor tweak to my J-pole article, and sent it off to Ian, (VK2TIP) a gent in Australia . I don't know what his plans are, but I think he may be posting it to his web site as well. I haven't heard from him in a bit, so I'm not sure where he's using it. He mentioned something about reprinting it in a periodical he publishes. His site is quite good also, so you might want to swing by and check it out. http://www.electronics-tutorials.com/

At the moment, I'm working on a regen receiver design for some kids to build during National Engineers Week and our QRP group the Knightlites. I'm working on this with Ray (KU4LK), a chap from RFMD. In fairness, he's been doing all the work. I've just been a critical reviewer, but he doesn't seem to mind. :-)
He's worked out a pretty stable and simple design that won't tax the kids to do anything too overly challenging, so I abandoned my "Armstrong" based design in favor of his. It has some neat and unique features that will make it appealing to QRP'ers also. I'll be posting it on our web site when we finish up with it... We're only a few days away from it's final form now.

Hope you all had a great Christmas holiday.

72

Regards;

Gary O'Neil
IBM Microelectronics
Network Products Applications
RTP, NC
Office: (919) 543-5750 FAX : (919)-543-7378

"Ron McConnell" <rcmcc@lucent.com> on 01/23/2001 11:20:20 AM

Please respond to <rcmcc@lucent.com>

To: Gary Oneil/Raleigh/IBM@IBMUS, "'QRP-L'" <qrp-l@lehigh.edu>, <njqrp@njqrp.org>
cc: "'X w2iol'" <w2iol@arrl.net>, "'George-VE3ERP Murphy'"

      <ve3erp@encode.com>
Subject: End-Fed Halfwave Antennas, Zepps, J-Poles -> HAMCALC

Hey, Gary!

The TRUTH IS [GETTING] OUT THERE!

If you haven't done so yet,
check out Steve Yates's (AA5TB) _nice_ web site
page on end-fed halfwave antennas

  http://www.geocities.com/aa5tb/efha.html

featuring and promoting
"The Revelations According to N3GO"
with a link to your Communications Quarterly article. :-)
I've been sending out notes to J-Pole/Zepp
inquiries on the lists and newsgroups
for the last couple of years.
They seem to be taking effect.

Steve, et al, in case you are not aware,
George (VE3ERP) Murphy has included Gary's
End-Fed Zepp/J-Pole design program in his HAMCALC
package of 250+ ham software programs.
It's Murph's version of my version of the
N3GO original. I added the option of using
a different t-line for the shorting stub
from the series section. Murph added nice
graphics and a better user interface.
I can send a copy of the Basic program to anyone
interested. (I don't think you mind, Murph.)

I _highly_ recommend that folks get the whole
HAMCALC CD-ROM from Murph (see the Cc: list)
at US$7.00 for S&H,
one of the best ham software deals around.

Cheers, 73,

Ron McConnell

w2iol@arrl.net

PS: Gary, did you get a chance to play

any more with the wet t-lines?

Date: Tue, 23 Jan 2001 18:05:13 -0500
From: "Don Wilhelm" <w3fpr@arrl.net>
To: <sjacobs@isd.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [89438] Re: Need help with torodial core
Message-ID: <002b01c08590$f72bc6c0$73440f3f@dbw11main>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Steve,
Although your factor of 3 turns change due to a permeability change of 3 could be a rough starting point, it will likely not be correct and you will have to do some measuring.
What you really need is the Al value for the cores - comparing the values will give you the factor that you really need.
As a 'fer-instance' I am looking at the Al values for Amidon cores - a T37-15 has a premeability of 25 and an Al value of 90, and the T37-26 has a permeability of 75 (3 times) and an Al value of 275 (3.05 times) -- that's not much difference, but don't stop there - the T68-15 has an Al value of 180 where the T68-26 has an Al of 420 (that's only 2.3 times).

If you cannot determine the proper Al value from the manufacturer's literature, you can always wind 10 turns on the core, then measure the inductance and use that value for an Al value in units of uH per 10 turns. The number of turns needed for a specific inductance would then be 10 * sqrt (desired L/Al in uh per 10 turns).

All this above can tell you how to wind the core to get a specific inductance. Beware though that it says nothing about the loss chacteristics at high frequencies, so you could have the right inductance and OK performance at 80 mtrs as well as a dummy load at 10 mtrs - I just can't comment since I have no information on that core.

73,
Don Wilhelm -Chapel Hill, NC   W3FPR home page:
http://www.w3fpr.webprovider.com
  QRP-L # 485   K2 SN 0020   mailto: w3fpr@arrl.net

----- Original Message -----
From: "Steve Jacobs" <sjacobs@isd.net>

>
> I need a bit of info on some old torodial cores that I bought at a
hamfest.
> They are marked CF123 - Q1. When I went searching for a plan to make a 4:1
> Balun, I found one in a 1968 ARRL handbook which just happens to use a
CF123
> with Q2 material. I believe that Q1 material has a permeability of 125 and
> Q2 has a permeability of 40.
>
> My questions are:
>
> 1) Is Q1 material suitable for a 80-10 Meter Balun?
> 2) If the original plan calls for 10 bifilar turns wound around a core of
Q2
> material, would a core of the same dimensions made from Q1 material need 3
> times fewer turns due to it's 3X higher permeability?
> 3) How much inductance is needed in a 4:1 voltage Balun?
>

Date: Tue, 23 Jan 2001 17:38:42 -0500
From: hamjoel@juno.com
To: Karl.Kanalz@allegiancetelecom.com, qrp-l@lehigh.edu
Subject: [89439] Re: 30 Metres
Message-ID: <20010123.180459.-437161.1.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

On Tue, 23 Jan 2001 11:48:29 -0600 "Kanalz, Karl"
<Karl.Kanalz@allegiancetelecom.com> writes:
> But I also believe that as "Amateurs", we should be as professional
> as possible in everything we do!

     What's the point in makin a hobby a chore?
Thair are rules, we follow them... that's what we're required to do...
Really? is it professional to put a tunna fish xmtr that chirps, and
drifts on the air and try to make contacts with minimum power and a
highly compromised antenna system.... that an't professional...
     it's amateruish, it borders on foolishness and it's fun to do or
participate in...it's a ham thing not a professional thing to do...
     and iffin u stayed within the rules and regs or the spirit of the rules
en regs then u done it right...professional

Date: Tue, 23 Jan 2001 17:25:50 -0500
From: hamjoel@juno.com
To: w5yr@att.net, qrp-l@lehigh.edu
Subject: [89440] Re: about tuner losses
Message-ID: <20010123.180459.-437161.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

My point George
     u r lightyears ahead of us "average" hams... ur a professional who has a ham licence... I doubt if anyone would question that...
     The question was answered on the amateur level long ago... iffin u chuner has loss u use better or bigger parts or better design...
     the chuner makes a match to the xmission line...the xmtr can
     live with.
Those of you with advanced education can see many more subtle points and make a good explanation... other ee's will enjoy... us ham folk.. just need the big picture...iffin we get in ovah our heads we email one of u grew rouxs who can explaine to the minutest detail whare the problem is...
     kneaux need to beat it to death on the list..
or so is this cajun's thoughts...
has nothing to do with you being a good or bad guy...
personally I like ur posts and think u kneaux morn I'll ever start to kneaux...
it an't personal
just my thoughts
ke1la joel
in maine
mainely freezin..

On Tue, 23 Jan 2001 11:25:03 -0600 "George, W5YR" <w5yr@att.net> writes:
> Well, I haven't read all the inputs to this thread, but from a
> professional electrical engineering background of several decades

---

Date: Tue, 23 Jan 2001 18:10:16 EST
From: W2SH@aol.com
To: qrp-l@lehigh.edu
Subject: [89441] Insulated wire and received noise.
Message-ID: <63.10ce71f8.279f6958@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The ease with which moisture enters insulated wire is astounding. The resulting corrosion only makes the higher rf resistance of stranded wire compared to solid wire even more so. Rectification effects caused by the corrosion, when coupled with sporadic contact between the strands, can bring on new nasties, these being noise and tvi. So the case for solid antenna and feedline conductors is pretty clear.

Using insulated wire for both is desirable to avoid conductive losses if the wire touches wet tree branches. I use thick insulation (polyethylene with a nylon jacket) for the antenna. This a very tough covering which will resist repeated rubbing by the trees when the wind blows hard, and it adds strength to the tensioned wire spans, albeit with some additional weight . My home-brewed feedline, using solid copper conductors of course, is draped in such a manner that it never touches anything between its ends, and it is not under tension. Therefore, here I don't need extra strength and I don't have to suffer extra weight. Nevertheless, like my antenna, I insulate my feedline, but instead use thin insulation (enamel, marine varnish, paint or a combination of these).

There is another excellent reason to have the antenna and feedline conductors insulated, and that is to lower received noise. The source of noise I'm referring to is called rain or snow static. Raindrops and snowflakes falling through the sky do not enjoy a frictionless descent. Rather, these particles of moisture develop a small electrostatic charge which is discharged when they strike a conductive surface. I would suspect that there is a small degree of discharge when they encounter even an insulated conductor, but that it is very much less than for a bare conductor.

As a kid, I used to scuff across the carpet with leather-soled shoes and discharge a pretty healthy spark through a silver knife when I touched another metal object, and I could always elicit a menacing growl when a smaller spark jumped to the family dog's wet nose. To expand this rudimentary experiment, one might tune a small bc portable receiver to a clear frequency, and then see how greatly the static crash caused by the

discharge is diminished when the receiving metal surface (in preference to canine flesh) is covered with plastic film, wax paper or a cloth. It shouldn't be necessary to connect an oscilloscope to the receiver, for aural evidence should suffice to prove the point.

GL,

Charles, W2SH

Date: Tue, 23 Jan 2001 16:02:45 -0700
From: "Niel Skousen" <nskousen@scientech.com>
To: <qrp-l@lehigh.edu>
Subject: [89442] RE: Repackaging the NC40A
Message-ID: <010b01c08590$9912b9e0$bb1a0a0a@scientech.com>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Another possible idea to incorporate....

40 pin CPU sockets (available both through hole and smt) are made to allow the use of the area under the socketed CPU for smt components and IC's. A 40-pin socket could be used with a 40pin header for all the toroids and other Band determining components to make an SMT-40 which would be band-change-able much like the Sierra.

I for one, would love to build a single board SMT NC-40 for travel and backpacking...

Niel

-----Original Message-----
From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of Doug Hendricks
Sent: Tuesday, January 23, 2001 2:55 PM
To: Low Power Amateur Radio Discussion
Subject: Repackaging the NC40A

Allan, I have thought for years that the NC40A would be an ideal candidate to convert to surface mount parts. Why not see if you can find a friend on the list who knows how to lay out boards with surface mount parts? Work with him and see what you can come up with. I bet 95% of the parts would be available in surface mount. I would suggest that you use 1206 sized parts. A couple of guys that I have talked with about this suggest that it would be

a board about the size of a credit card, especially if you put parts on both sides of the board. The rig should literally fit in your shirt pocket and be ideal for backpacking. I would use a through hole part for the final, as it would be easier to heatsink. I think that all of the IC's that the NC40A uses are available in SOIC, in fact, the 602's are only available in that package that I know of now.

So, how about it gang? Steve Weber knows a lot about laying out surface mount rigs, are there others of you out there? If so, get in touch with Allan and keep us informed as to your progress. 72, Doug, KI6DS

Date: Tue, 23 Jan 2001 23:21:10
From: "Mike WA8BXN" <hubby2k@hotmail.com>
To: qrp-l@Lehigh.EDU
Subject: [89443] harbor freight punch
Message-ID: <F2959x4nzwjyXSz9qGF00000700@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Currently on sale for $14.95, the one used to make Manhatten Pads. No notation that they were not in stock either.

Date: Tue, 23 Jan 2001 18:41:53 -0500
From: "Hare,Ed, W1RFI" <w1rfi@arrl.org>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.edu>
Subject: [89444] QRP related survey question on ARRL Web page
Message-ID: <125490A005E3D3118C9C00805FC743CC01C16840@KAHLESS>
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"

Hi, guys and gals,

The ARRL Web page has another QRP survey question. This time:
Have you ever operated QRP while on a hiking or camping trip?
Yes
No
I don't go hiking or camping
Let's make sure they know we are here. :-)
73,

Ed Hare, W1RFI

Date: Tue, 23 Jan 2001 17:47:19 -0600
From: "George, W5YR" <w5yr@att.net>
To: hamjoel@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89445] Re: about tuner losses
Message-ID: <3A6E1807.FE0A436C@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Joel, my previous posting that you quoted in part was not intended to "toot my horn" or to put anyone down or to run a subject into the ground.

Believe it or not, and don't take this personally, there are a lot of guys on this list who really and truly want to learn as much as they can, short of enrolling in the nearest engineering college, about antennas, transmission lines, and radio in general. Some are content to get a license and push the buttons or key and converse. Others have a deeper technical interest. I know, because I hear from them all the time asking more questions and thanking me for shedding a little light on something that was bothering them.

So, about all I can do is invite you to tune me out if I am boring you. I have had your one dissenting vote against many, many positive comments.

72/73, George W5YR - the Yellow Rose of Texas NETXQRP 6

Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
Amateur Radio W5YR, in the 55th year and it just keeps getting better!
Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

hamjoel@juno.com wrote:
>
> My point George
> u r lightyears ahead of us "average" hams... ur a professional who has a
> ham licence... I doubt if anyone would question that...
> The question was answered on the amateur level long ago... iffin u
> chuner has loss u use better or bigger parts or better design...
> the chuner makes a match to the xmission line...the xmtr can live
with.

> Those of you with advanced education can see many more subtle points and
> make a good explanation... other ee's will enjoy... us ham folk.. just
> need the big picture...iffin we get in ovah our heads we email one of u
> grew rouxs who can explaine to the minutest detail whare the problem
> is...
>   kneaux need to beat it to death on the list..
> or so is this cajun's thoughts...
> has nothing to do with you being a good or bad guy...
> personally I like ur posts and think u kneaux morn I'll ever start to
> kneaux...
> it an't personal
> just my thoughts

Date: Tue, 23 Jan 2001 17:31:25 -0600
From: k1oj <k1oj@ditdit.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [89446] The Tennis Shoe Counterpoise (LONG)
Message-ID: <004001c08594$9aa60740$0b01a8c0@k1oj>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

The Tennis Shoe Counterpoise
(QRP operation from the Hilton Hotels: How not to do it!)
By Anonymous

Picture this. A Hilton Hotel in a cold snowy state, twelve inches of snow on the ground, the wind is blowing hard, it is 18 degrees and it is after dark. The screen and safety stop had mysteriously been removed from the window. Perhaps Hilton knew he was a ham and he would want that. So, there is this guy leaning out of the second story window. He has the end of a coaxial dipole in one hand and the remaining portion coiled up, 'Texas lariat style' , in the other hand. Eyeing the surroundings for any possible support for the antenna, he spies a short tree about 30 feet away with the roof of another building another 20 feet behind it. What ever would he use as a weight to carry the infamous 'Hunk-O-Wire' antenna to the intended support? His eyes scoured the room looking for just the right item. 'That desk lamp looks too expensive, they will miss it', he thought. 'The TV remote is too light and besides I don't want to have to get up off the sofa to change the channels.' Then he sees it. The perfect item. A size 8 high top tennis shoe. He ties the shoe onto the end of the antenna. He lets out about 3 feet of the wire and starts the shoe swinging. Round and round it goes. He is thinking, 'I should have packed my spud gun!' He takes careful aim, closes his eyes and lets it fly. He listens. No sound of breaking glass or screams from the passerby's. He opens his eyes and sees that the shoe has landed on top of the roof beyond the tree. A perfect shot! Now, for the other end of

the antenna. Same problem as before. What to use as a counter weight. Well, that single shoe sitting there near the suitcase is of no use by itself. He connects the second shoe to the antenna and follows the previous procedure step by step. Again his aim is true and the shoe lands on the roof across the way. It is positioned about 30 feet from the other, which gives as much spread to the two ends of the dipole as possible. A quick check of the SWR shows that all is well. He gets on 40 meters and soon hears the QRP-L fox. About an hour later he is able to work the fox and a happy dance is formerly completed. Now to get the antenna down and everything back in place. The second leg of the antenna was retrieved with no problem except a shoe full of snow. No problem, that will dry over night. The first leg of the antenna was not as easy. First a security guard came wandering by outside and noticed the strange marks in the snow. He lingered around for a while trying to figure the cause of the marks. He never did look up! Finally he continued on his way. Quickly now, retrieve the remaining antenna wire and shoe. He made a hasty decision. A mighty yank was used to get the shoe off the roof and past the tree. It was obviously not mighty enough. His shoe landed right in the top of the tree. Pull as he may, the shoe would not budge from the tree. So with one more Herculean pull, the wire antenna tore loose from the shoestring. There it was. Hanging out in the open for everyone to see. A shoe. Size 8. Dangling 20 feet above the ground in a tree next to the main entrance of the high class Hilton Hotel. It remains there today. Maybe the ground's keeper will rescue it after the spring thaw. He is a ham. He will improvise. He will endure. He will operate. His toes will get cold. He will be laughed at.

OJ
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End of QRP-L Digest 2076
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